AUTHOR INDEX

Abe, Ikuo, 166, 910
Abe, Kentaro, 233
Abisch, Eva, 647
Abramson, Fred P., 768
Adams, Gloria, 126, 921
Adams, John G., 95
Agrawal, Y. K., 885
Agrawala, Praful, 557, 776
Agrawala, P., 757
Aiba, Tetsuya, 471
Ajeena, Yousif H., 544
Akbarieh, M., 724
Akgün, Hülya, 735
Al-Rashood, Khalid A., 898
Alballa, S. R., 70, 191
Alhaider, Abdulqader A., 898
Allen, Loyd V., Jr., 972
Allen, Stanley D., 1050
Altiere, Ralph J., 370
Alvinerie, M., 937
Ames, James R., 999
Amidon, Gordon L., 511, 1007
Angignard, D., 387
Antal, Edward J., 48
Antimisiaris, Sophia G., 334
Ashizawa, Kazuhide, 635
Astigarrabia, Enrique, 918
Atkinson, Hartley C., 796
Attarchi, Faraneh, 314, 318
Augsburger, Larry L., 733
Augustine, Matthew A., 325, 414
Awang, D. V. C., 820
Awazu, Shoji, 390
Axelson, James E., 373
Ayres, James W., 104
Azoury, Reuven, 425, 428

Bäck, Sten-Erik, 765
Bagniefski, Teresa M., 492
Bailey, Leonard C., 500, 506
Baker, Glen B., 498
Baker, John K., 380
Banakar, Umesh V., 95, 284, 558
Banerjee, Sujit, 70
Barbalas, M. P., 679
Barcia, Emilia M., 175
Barcza, Lajos, 622
Barre, J., 64
Bassotti, Gabrio, 784
Bauerfeind, Peter, 647
Bayne, W. F., 880
Beal, Stuart L., 731
Beamer, Robert L., 986
Beaulieu, Normand, 889
Béchard, S., 222
Bedra, Craig, 33
Begg, Evan J., 796
Belda-Maximino, R., 799
Bennett, Lawrence K., 986
Benowitz, Neal L., 396
Berger, K., 757
Bernstein, David F., 325, 414
Berry, Brian W., 666
Berthod, Alain, 216
Biagi, G., 977
Bialer, Meir, 831
Bianchi, E., 670
Bigot, M.-C., 534
Bindschaedler, C., 696
Bingel, Audrey S., 461
Black, Jimmy, 630
Blanchard, James, 548
Blaschke, Gottfried, 1018
Blum, André, 647
Bodor, Nicholas, 981
Bonnefond, G., 699
Borazan, Hanna N., 544
Borgström, Lars, 952
Botha, S. A., 444
Boxenbaum, Harold, 1012
Boyle, D. A., 779
Boyle, Jay O., 548
Brasch, Robert C., 97
Brashear, R. E., 571
Brazzell, R. K., 110, 591
Breimer, Douwe D., 847
Breuer, Eli, 145
Brewster, Marcus E., 981
Brown, Nesbitt D., 145
Brunk, Ulf, 138
Buchmann, Michel, 169
Buechter, Douglas D., 630
Bummer, Paul M., 1021
Bundgaard, Hans, 285
Burnette, Ronald R., 27, 132, 492
Byrne, Frances K., 1066
Byron, Peter R., 693

Cahn, J., 387
Caira, M. R., 444
Campistron, G., 64
Cardinal, John R., 322
Carruthers, S. George, 477
Carson, L. Wulf, 838
Carstensen, J. T., 314, 318, 625, 821
Carter-Burks, Glarretter, 464
Cerniglia, Carl E., 259
Chan, Man C., 498
Chaney, S. G., 178
Chapron, Dennis J., 751
Chellquist, Eric M., 850
Cheng, Daniel C. H., 610
Cheung, Wing K., 748
Chiang, Peter K., 145
Chiba, Masato, 944
Chien, Chen-Yie, 277
Chien, Yie W., 371
Ching, Michael S., 835
Chinn, John W., 630
Chow, Donald D., 432
Clementi, W. A., 779
Cohen, Sasson, 409
Cone, Edward J., 396
Connors, Kenneth A., 241
Constanzer, M. L., 880
Cooper, Eugene R., 24
Cooper, Thomas B., 255
Copeland, James R., 396
Cordell, Geoffrey A., 461, 553
Coutts, Ronald T., 498
Cowan, David A., 606
Coyne, E., 818
Crawford, M. H., 779
Cristi, Edgardo A., 638
Crolla, Tiziana, 711
Crommelin, D. J. A., 823
Crooks, Peter A., 94, 227
Cucala, Mercedes, 647
Curatolo, William 322
Cutler, David J., 196
Czuba, Mark A., 835

Danielson, Terry J., 498
Daniotti, Sergio, 784
de Boer, Albertus G., 847
de Bruijn, E. A., 843
de Buochberg, M. Simeon, 699
de Haan, P., 861
de Silva, J. Arthur F., 1
DeAtley, R. E., 571
Debruyne, D., 534
Deck, Lorraine M., 237
Deguchi, Yoshiharu, 481, 559, 674
DeLong, A. F., 153
Derendorf, Hartmut, 961
DeSante, K. A., 153
Diana, John N., 277
Dillingham, Elwood O., 464
Dills, Russell L., 309
Dittert, Lewis W., 906
Dobbs, Richard E., 591
Doctor, B. P., 145
Dodda-Kashi, Satish, 838
Dolinsky, Donna, 90
Dolz-Planas, M., 799
Dryhurst, Glenn, 911
Duffield, P. H., 1003
Duffield, A. M., 1003
Duncan, Glenn F., 273

Eddington, Natalie D., 541
Edgar, John A., 461
Edman, Peter, 138
Edwards, David J., 466
El-Obeid, Humeida A., 898
Elkayam, Rina, 425, 428
Emmen, F., 823
End, David W., 149
Engel, Steven I., 748
Eradiri, O., 963
Eriksson, Ulf G., 97

Ertel, K. D., 625
Estes, Kerry S., 981
Ezzedeen, Fikrat W., 455

Fabre, H., 699
Fales, Henry M., 640
Farag, Yahya, 872
Farah, Nabil, 216
Fareed, J., 818
Farmen, Raymond H., 273
Farnsworth, Norman R., 553
Farrow, Peter R., 68
Fassihi, A. R., 876
Fatmi, Aqeel A., 87
Faulkner III, Harold C., 273
Fein, Mira, 255
Feis, Alessandro, 523
Fiese, Eugene F., 90
Fildes, F. J. T., 804
Fini, A., 596
Flückiger, Alex, 299
Fong, Harry H. S., 461, 553
Foster, R. T., 70, 191
Franklin, Paul H., 353
Franz, Thomas J., 489
Freeman, David J., 477
Friedman, Michael, 425, 428
Fujita, Shoichi, 944
Fukuda, Tomoaki, 383
Fukumori, Yoshinobu, 383
Fukunaga, Kazuhiro, 640
Fuwa, Tohru, 200

Gairola, Chandra C., 955
Gal, Joseph, 1062
Gans, Daniel J., 790
Gard, John, 630
Garg, Pradeep K., 393
Garland, W. A., 679
Garofalo, Gil, 265
Gaudreault, R. C., 185
Georgiev, Vassil St., 643, 1050
Gessner, Peter K., 908
Gfeller, Jean-Claude, 647
Ghodsi-Hovsepian, Shahnaz, 353
Giardino, Angela, 322
Gieseker, D., 779
Gillespie, William R., 39, 48
Gilliland, D. L., 120
Ginawi, Omer T., 898
Gipps, Elizabeth M., 208
Gobas, Frank A. P. C., 265
Golander, Yechiel, 902
Gollamudi, Ramachander, 464
Gonda, Igor, 340
González-Rodriguez, F., 799
Gorman, William G., 90
Grass, George M., 3, 15, 24
Greiner, P. O., 387
Grigolo, B., 596
Grippo, A. A., 178
Groscurth, Peter, 208
Gruber, Nancy C., 373
Guillory, J. K., 444
Gupta, P. K., 704, 719
Guy, Richard H., 557

Hageman, William E., 149
Haj-Yehia, Abdulla, 831
Hajdu, Joseph, 921
Hall, I. H., 178
Hall, Lon, 247
Hall, Stephen D., 359
Hamrell, Michael R., 94
Hanano, Manabu, 200, 347, 586, 688
Hansen, Jr., Eugene B., 259
Hansson, Arne G., 322
Hardy, Kenneth J., 835
Harper, Nancy J., 90
Harris, A. S., 337, 405
Hartmann, Dieter, 299
Harwood, Richard J., 90
Hashida, Mitsuru, 418
Hashimoto, Munehiro, 531
Hassett, James M., 466
Hattori, Teiichi, 635
Hayashi, Masahiro, 390
Hayashi, Yoshie, 471
Heflich, Robert H., 259
Hekster, Y. A., 96
Henry, D. P., 153
Herraez-Dominguez, J. V., 799
Hess, J., 679
Hickey, Anthony J., 804
Hickson, Elizabeth A., 87
Higuchi, Takeru, 855
Higuchi, T., 967
Higuchi, William I., 610
Hirashima, Naoki, 233
Hirayama, Fumitoshi, 233
Ho, Chih Y., 149
Holbrook, D. J., 178
Hollstein, Ulrich, 735
Hook, Robert H., 1012
Hori, Ryohei, 471
Horie, Toshiharu, 390
Hoss, Wayne, 353
Houin, G., 64, 937
Howard-Lock, Helen, 1033
Howell, Stanley R., 309
Hryncewicz, Cheryl L., 1066
Hsu, Fu-Lian, 727
Hu, Ming, 1007
Huang, Hua-Pin, 104
Huang, Jin-ding, 959
Hung, C. T., 704, 719
Hunke, William A., 90
Hunter, Chyren, 255
Huntington, J., 967
Hurwitz, Leon, 735
Hussain, Anwar A., 906
Hwang, Karl J., 432

Ichimura, Fujio, 481, 559, 674
Iga, Tatsuji, 200, 347, 586, 688
Igarashi, Takashi, 56
Ijitsu, Takanori, 233
Imbimbo, Bruno Pietro, 784
Imbimbo, Ennio, 784
Ishikawa, Fusashi, 481
Ishikawa, Fusashi, 559
Ito Yoshimasa, 280
Iwaki, Masahiro, 280
Iwatsubo, Takafumi, 586

Jackson, Graham V., 804
Jacob III, Peyton, 396
Jacobus, Robert H., 1066
Jalonen, Harry G., 810
Jamali, F., 70, 191, 963, 998
Jamali, Fakhreddin, 666
Jamieson, D. D., 1003
Johnston, Thomas P., 740
Joly, L. P., 185
Jozwiakowski, Michael J., 241
Julian, Thomas N., 715
Jung, L., 64
Jusko, William J., 157
Jönsson, Sven, 952

Kadir, Ron, 409
Kajii, Hiroshi, 390
Kalonia, Devendra S., 1055
Kamaya, Hiroshi, 166
Kamiya, Akira, 471
Kaneko, Ikue, 383
Kanno, Satoshi, 993
Kanovsky, S. M., 880
Kapoor, Amrit L., 251
Karol, M. D., 571
Kashiwada, Kazuko, 993
Kassam, Yasmin B., 1033
Kawaguchi, Takeo, 855, 939
Kean, Walter F., 1033
Keledjian, J., 1003
Kennedy, G. T., 779
Kesselring, Ulrich W., 169
Khouri, Margaret R., 527
Kibirige, Mustapha, 237
Kihara, Kunio, 531
Kim, Dong Chool, 200
Kishore, Kamal, 78
Kitagawa, Haruo, 56
Kitamura, Satoshi, 468
Klaassen, Curtis D., 309
Kleeman, William P., 500, 506
Klockowski, Patricia M., 365
Knowlton, Philip W., 662
Koda, Shigetaka, 468
Koenig, K. K., 120
Koffell, J. C., 64
Kohno, Keiichi, 565
Kong, Ah-Ng, 157
Konishi, R., 967
Konno, Chohachi, 461
Korfmacher, Walter A., 259
Kosanke, S. D., 120
Koshida, Rie, 674
Kotkoskie, Lois A., 309
Koupparis, Michael A., 334
Kovacic, Peter, 999
Kraeling, M., 757
Kramer, Paul A., 751
Kreuter, Jörg, 208
Krishnan, R., 458
Krutzén, Eva, 765
Kumar, G. Sudesh, 33
Kurihara, Atsushi, 347

Laakso, Timo, 138
Labate, A. M. Morselli, 596

Lacroix, J., 185
Lacroix, Pauline M., 889
Lahittete, Jean M., 265
Lai, J. Y., 432
Laika, David, 466
Lam, F. C., 704
Lam, Luke K. T., 393
Lander, Naphtali, 955
Lang, Jr., S. A., 458
Langer, R., 696
Lapinjoki, S. P., 802
Laplanche, Robert, 647
Lasslo, Andrew, 464
Lawrence, W. Homer, 464
Lee, Hyok-Koo, 81, 126, 921
Lee, K. H., 178
Lee, Paul H., 610
Lee, Vincent H. L., 838
Lee, Yong Jai, 81
Lehman, Paul, 489
Leibach, Frederick H., 586
Lemko, C., 963
Lenner, László, 622
Leong, K., 696
Lerk, C. F., 861
Lerner, D. A., 699
Lethagen, S., 337, 405
Levy, Gerhard, 365, 569, 645, 729, 745
Levy, Robert J., 740
Li, Kim L., 251
Lidgard, R. O., 1003
Limberg, Jobst, 1018
Lin, Shan-Yang, 229
Lindberg, Claes, 952
Liron, Zvi, 409
Liu, Haw-Jang, 527
Liu, Li-Ling, 662
Livi, O., 977
Lo, Ee Sing, 255
Lock, Colin J. L., 1033
Loftsson, Thorsteinn, 981
Lombardi, Fiorella, 711
Lötter, A. P., 444, 1047
Lovering, E. G., 889
Lucacchini, A., 977
Luch, James R., 902
Ludden, L. K., 779, 1026
Ludden, T. M., 779, 1026
Lukachich, Marianne, 647

Macheras, Panayotis E., 334
MacIntyre, Anna C., 196
Mackay, Donald, 265
Madani, Abdul Azim E., 898
Magarian, R. A., 120
Mandrou, B., 699
Mannhold, Raimund, 1018
Mansfield, Inger L., 814
Maron, Nina, 638
Marrucci, W., 977
Martini, C., 977
Mathiowitz, E., 696
Matsushita, Ryo, 481, 559
Mattern, J., 110
Matuszewski, B. K., 880
Mayer, Joachim M., 359
Mazer, Norman, 647
Mazzi, Giovanni, 523
McBurney, Alan, 68
McChesney, James D., 380
McCue, Bette A., 591
McErlane, Barbara A., 373
McKeown, Robert Henry, 926
McLeod, A. D., 704
McMorland, Graham H., 373
McMullen, J. N., 222
McNamara, Patrick J., 401
McNamara, Daniel P., 511
Mehvar, R., 963
Metzler, Carl M., 732, 733
Meyer, Marvin C., 658, 760
Meyer-Lehnert, Sabine, 1062
Mihaly, George W., 330, 835
Mikkelson, Thomas J., 771
Miller, Dwight W., 259
Miller, Nicholas C., 90
Millership, Jeffrey S., 116
Minton, John P., 955
Mintzer, Harvy, 90
Mitchell, Jeffrey T., 1050
Mitra, Ashim K., 771
Miyake, Yasuo, 635
Miyamoto, Yusei, 586
Miyauchi, Seiji, 688
Mizogami, Susumu, 531
Mohrbacher, Richard J., 149
Molyneux, Russell J., 461
Moorthy, P. N., 78
Morelli, Basilio, 615, 1042
Morgan, Denis J., 330, 835
Morimoto, Yukiyoshi, 468
Morris, Marilyn E., 814
Moulin, M., 534
Mufson, Daniel, 325, 414
Muhammad, Nouman, 126
Mullen, George B., 643, 1050
Mullersman, Gotelind, 981
Mulley, B. A., 866
Munafo, Alain, 169
Munavalli, Shekhar, 727
Murata, Kazuo, 565
Murtha, John L., 715
Mustafa, Ali A., 898

Nairn, J. Graham, 872
Nakashima, Emi, 481, 559, 674
Nam-Tran, Hô, 169
Natalini, B., 596
Neckers, Douglas C., 33
Nell, G., 153
Neville, G. A., 820
Newburger, Jerold, 175
Nielsen, Niels Mørk, 285
Nightingale, Charles H., 367, 991
Nilsson, I. M., 337, 405
Nilsson-Ehle, Peter, 765
Niven, Ralph W., 693
Noda, Kazuo, 565
Noonan, Patrick K., 370
Noormohammadi, Akbar, 606

Ogata, Hiroyasu, 993
Ogiso, Taro, 280
Ohira, Mineko, 993
Ohlin, M., 337
Ohmori, Shigeru, 56
Øie, Svein, 948
Okamoto, Hirokazu, 418
Okerholm, Richard A., 1012
Okhamafe, Augustine O., 438
Okiyama, Masahiko, 56
Okumura, Katsuhiko, 471
Oldham, S. W., 153
Ongpipattanakul, Boonsri, 132
Oswald, C. B., 178
Otterness, Ivan G., 790

Padula, Janice, 81
Pagé, M., 185
Park, Y. H., 110
Park, Young Han, 591
Parker, M. S., 876
Pellicciari, R., 596
Pento, J. T., 120
Perchalski, Robert, 981
Pezzuto, John M., 393
Phillips, J. Paul, 48
Pinal, Rodolfo, 74, 518
Pitha, Josef, 640
Pittman, Kenneth A., 273
Plusquellec, Y., 64
Pollak, P. Timothy, 477
Prakasam, K., 885
Pynnönen, K. M., 802

Quintiliani, Richard, 367, 991

Racey, T. J., 820
Rackley, Russell J., 658
Radebaugh, Galen W., 715
Ramos, Amelia A., 638
Ramzan, Iqbal, 996
Rawal, Bhupat D., 955
Reifenrath, William G., 850
Remko, Milan, 304
Riggs, K. Wayne, 373
Rikken, C. H. M., 843
Rischke, Janice, 1033
Risner, Marcus E., 396
Ritschel, W. A., 757
Ritschel, Wolfgang A., 776
Robinson, Joseph R., 3, 15, 24
Rochas, M. A., 64
Rochon, P., 820
Roda, A., 596
Roda, E., 596
Rogers, James A., 933
Rollet, Michel, 216
Rotenberg, K. S., 1026
Rowland, Malcolm, 359
Royer, Robert E., 237
Rurak, Dan W., 373
Russell, A. S., 70, 191
Russell, Anthony S., 666
Ryan, Michael D., 999
Ryckelynck, J.-P., 534
Rytting, J. H., 967

Saab, Akram N., 906
Sabharwal, S., 78

Saffran, Murray, 33
Saito, Masahiko, 939
Saito, Yoshihiro, 471
Salim, Aws S., 579, 582
Samejima, Masayoshi, 565
Sandor, D., 679
Saneyoshi, Mineo, 939
Sathyan, G., 757
Sato, Hitoshi, 481, 559
Sato, Tadashi, 635
Satoh, Hiroaki, 200
Savolainen, K. E., 802
Sawada, Yasufumi, 347
Scheiner, Steve, 304
Schenkein, Jacqueline P., 527
Schoen, Frederick J., 740
Schott, Hans, 918
Schuhmann, Gabriele, 97
Schurrath, Ute, 902
Sears, Roger W., 889
Sebaldt, Rolf-J.,
Segre, G., 670
Seki, Hiromitsu, 855
Serajuddin, Abu T. M., 325, 414
Sezaki, Hitoshi, 418
Shanks, Mei L., 116
Sharata, Harry H., 27
Sheen, Pai-Chang, 325, 414
Sheiner, Lewis B., 731
Shepherd, Alexander M. M., 1026
Shiau, Yih-Fu, 527
Shihab, Fouad A., 455
Shiu, Wan Ying, 265
Sia, Luisa L., 748
Siddiqui, Ovais, 912
Silber, B. Michael, 748
Simonelli, Anthony P., 1055
Simoni, P., 596
Singal, Dharam, 1033
Slaughter, Richard L., 466
Sleeboom, H. P., 843
Sloan, Kenneth B., 210, 370
Smallwood, Robert H., 330
Smallwood, Richard A., 330, 835
Smejkal, Ruthann M., 145
Smith, Kevin M., 821
Smulevich, Giulietta, 523
Sobzyńska, Anna, 893
Soejarto, D. Doel, 461
Soloway, Albert H., 955
Someya, Kazuhiko, 993
Speiser, Peter P., 208
Staveris, S., 64
Steerenberg, P. A., 823
Stempler, Dov, 409
Stewart, James T., 452
Stoeckel, Klaus, 401
Stohs, S. J., 455
Stoltz, M. L., 110
Stoltz, M., 1047
Storm, G., 823
Stratford, Robert E., Jr., 838
Straughn, Arthur B., 658
Stravinski, Steven S., 748
Suber, Robert L., 96
Suckow, Raymond F., 255
Sugiyama, Yuichi, 200, 347, 586, 688
Suzuki, Hiroshi, 347, 586
Suzuki, Tokuji, 944
Svensson, E., 405
Svensson, Craig K., 662
Svensson, Klas, 952
Swanson, Steven M., 393
Sweeney, Kevin R., 751
Szabo, Lajos, 640
Szymanowski, Jan, 893

Tafoya, Cleotilde R., 237
Takahashi, Lloyd, 247
Takahashi, Harumi, 993
Takayama, Kozo, 610
Takeuchi, Yoshikazu, 383
Tamai, Ikumi, 481, 559
Tanigawara, Yusuke, 471
Taniguchi, Noboru, 674
Tawashi, R., 724
Taylor, Edward C., 999
Tehrani, Morteza R., 666
Thakur, Ajit K., 251
Theeuwes, Felix, 821
Thibert, R., 724
Thompson, Gary A., 1012
Thurston, David E., 630
Tillement, J. P., 64
Timm, Uwe, 299
Tisdelle, Patrice A., 464
Tjaden, U. R., 843
Toda, Hideo, 531
Tofuku, Yohei, 559
Topcu, Gulacti, 553
Touitou, Elka, 188
Toutain, P. L., 937
Tozer, Thomas N., 97
Trueb, Vreny, 401
Tsuji, Akira, 481, 559, 674
Tu, Yu-Hsing, 972
Tu, Zhi-Ben, 461
Twist, John N., 536
Tyle, Praveen, 94, 557

Uchikawa, Kiyohiko, 635
Ueda, Issaku, 166, 910
Uekama, Kaneto, 233
Ueno, Koichi, 56
Ueno, Masao, 233

van Borssum Waalkes, M., 823
Van Der Watt, J. G., 1047
van Helsdingen, P. J. R. O., 843
van Hoogdalem, Ewoud J., 847
Van Wagenen, Stan, 548
Vander Jagt, David L., 237
Vashi, Vijay I., 760
Veng-Pedersen, Peter, 39, 48
Veng-Pedersen, P., 571
Venkataram, Suresh, 933
Verotta, Davide, 784
Vidgren, M. T., 802
Vincieri, Franco F., 523
Voelkel, Adam, 893
Voigt, Werner, 1018

Wagner, Z. G., 405
Walenga, J. M., 818
Waller, Donald P., 461
Wang, Da-Peng, 972
Waranis, Robert P., 210
Ward, John W., 68
Watanabe, Reiji, 674
Watanabe, Yoshiteru, 847
Watkins, John B., 527
Wiedmann, Timothy S., 1037
Williams, Jr., W. L., 178
Wishnok, John S., 998
Woffendin, Gary, 606
Wong, Ooi, 926
Wong, Ooi, 967
Woodworth, J. R., 1026
Wooldridge, C. B., 110
Wou, Lyndon L-S., 866
Wrona, Monika Z., 911

Yacobi, Avraham, 748
Yalkowsky, Samuel H., 74, 518
Yang, Yea Huei K., 948
Yasuhara, Masato, 569, 645, 729, 745
Yeh, K. C., 880
Yeh, Shu-Yuan, 727
Yoo, Gyurng S., 452
York, Billie M., 591
York, P., 438
Young, David, 175, 541
Young, M., 719

Zanolo, G., 670
Zatz, Joel L., 536
Zbaida, Shmuel, 188
Zell, Manfred, 299
Zhi, Jianguo, 367, 816, 991
Ziegler, Walter H., 299
Zografi, George, 1021

Absorption
Intragastric Behavior and Absorption Kinetics of a Normal and "Floating" Modified-Release Capsule of Isradipine under Fasted and Fed Conditions, 647
Effect of pH on the In Vitro Dissolution and In Vivo Absorption of Controlled-Release Theophylline in Dogs, 760
Initial Slope Technique to Estimate First- and Zero-Order Drug Absorption Rate Constants, 816
Systemic Absorption of Ocularly Administered Enkephalinamide and Inulin in the Albino Rabbit: Extent, Pathways, and Vehicle Effects, 838
Absorption Enhancement of Rectally Infused Cefoxitin by Medium Chain Monoglycerides in Conscious Rats, 847
Passive and Carrier-Mediated Intestinal Absorption Components of Captopril, 1007

Acetaminobenzoic acid
Specificity of Esterases and Structure of Prodrug Esters: Reactivity of Various Acylated Acetaminophen Compounds and Acetylaminobenzoated Compounds, 855

Acetaminophen
Specificity of Esterases and Structure of Prodrug Esters: Reactivity of Various Acylated Acetaminophen Compounds and Acetylaminobenzoated Compounds, 855

Acetazolamide
Effect of Salicylate on Serum Protein Binding and Red Blood Cell Uptake on Acetazolamide In Vitro, 751

Activated carbon
Commentary on "Activated Carbon as a Biological Model", 908
Response to "Commentary on 'Activated Carbon as a Biological Model' ", 909

Acyclothymidine
Potentiation of the Antitumor Activity of 5-Fluoro-2′-deoxyuridine Esters in Combination with Acyclothymidine Esters on L1210 in Mice via Oral Administration, 939

Adenosine
Penetration of Adenosine into Excised Human Skin from Binary Vehicles: The Enhancement Factor, 409

Adsorption
Studies on Adsorptiochromism II: Diffuse Reflectance Spectroscopy of Adsorptiochromic Spiropyrans Adsorbed to Some Pharmaceutically Useful Solids, 241
Thermodynamic Evaluation of Activated Charcoal as a Poison Antidote by High-Performance Liquid Chromatography I: Derivation and Validation of an Equation for Gibbs Free Energy of Liquid–Solid Adsorption, 500
Thermodynamic Evaluation of Activated Charcoal as a Poison Antidote by High-Performance Liquid Chromatography II: In Vitro Method for the Evaluation of Activated Charcoal as a Poison Antidote, 506

Aerosols
Test Method for Evaluation of Loss of Prime in Metered-Dose Aerosols, 90

Albumin
Binding of Gossypol Derivatives to Human Serum Albumin, 237
Structural Requirements for Binding of Nonsteroidal Anti-inflammatory Drugs to Human Serum Albumin, 251
Effect of Altered Albumin Concentrations on Elimination of Unbound Prazosin In Vivo in the Rat and in the Isolated Perfused Rat Liver, 948
Human Serum and Plasma Protein Binding of Enoximone and Its Sulfoxide Metabolite, 1012

Aldose reductase inhibitor
Disposition of the Aldose Reductase Inhibitor AL01576 in Rats, 110
High-Performance Liquid Chromatographic Assay of the Aldose Reductase Inhibitor Spiro-(2-fluoro-9H-fluorene-9,4′-imidazolidine)-2′,5′-dione (AL01567) in Plasma and Urine and Its Pharmacokinetics in Humans, 591

Aluminum dye lakes
Effect of Dispersion on the Coloring Properties of Aluminum Dye Lakes, 866

***p*-Aminohippurate**
Moment Analysis of Drug Disposition in Kidney: Transcellular Transport Kinetics of *p*-Aminohippurate in the Isolated Perfused Rat Kidney, 471

Aminophylline
Circadian Rhythm in Theophylline Disposition during a Constant-Rate Intravenous Infusion of Aminophylline in the Dog, 658

Amiodarone
Effect of Amiodarone on the Disposition of Procainamide in the Rat, 662

Ampicillin
Second-Derivative Spectrophotometric Assay of Mixtures of Dicloxacillin Sodium and Ampicillin Sodium in Pharmaceuticals, 1042

Analgesics
Effect of an Analgesic Dose of Aspirin on Electrolyte Disposition in Healthy Subjects, 814

Androgenic activity
Prodrugs Utilizing Organosilyl Derivation: An Investigation of the Long-Term Androgenic and Myotrophic Activities of Silyl Derivatives of Testosterone, 116

Anthraquinones
Inclusion Complex Formation of 1,8-Dihydroxyanthraquinone with Cyclodextrins in Aqueous Solution and in Solid State, 523

Antiarrhythmics
Interactions of Antiarrhythmics with Artificial Phospholipid Membranes, 1018

Antibiotic agents
Identification of Organic Salts Formed by Interaction with Cefazolin and Aminoglycoside Antibiotics, 468
Peritoneal Transport of β-Lactam Antibiotics: Effects of Plasma Protein Binding and the Interspecies Relationship, 559
Interindividual Changes in Volume of Distribution of Cefazolin in Newborn Infants and Its Prediction Based on Physiological Pharmacokinetic Concepts, 674
Reversed-Phase Liquid Chromatographic Separation of Enantiomeric and Diastereomeric Bases Related to Chloramphenicol and Thiamphenicol, 1062

Anticancer agents
Inhibition of Nucleic Acid Synthesis in P-388 Lymphocytic Leukemia Tumor Cells by Helenalin and Bis(helenalinyl)malonate In Vivo, 178
1-Aryl-3-(2-chloroethyl) Ureas: Synthesis and In Vitro Assay as Potential Anticancer Agents, 185
Evaluation of the Cytotoxic Potential of Catechols and Quinones Structurally Related to Butylated Hydroxyanisole, 393
Potential Pitfalls in In Vitro Antitumor Activity Testing of Free and Liposome-Entrapped Doxorubicin, 823
Potentiation of the Antitumor Activity of 5-Fluoro-2′-deoxyuridine Esters in Combination with Acyclothymidine Esters on L1210 in Mice via Oral Administration, 939
Relevance of *N*-Nitroso Compounds to Human Cancer. Exposures and Mechanisms (Wishnok, book review), 998
Electrochemistry of the Anticancer Agents Methotrexate and α-Difluoromethylornithine in Iminium Form, 999

Antidiuretic agents
Vasopressin: A Model for the Study of Effects of Additives on the Oral and Rectal Administration of Peptide Drugs, 33

Antidotes
Thermodynamic Evaluation of Activated Charcoal as a Poison Antidote by High-Performance Liquid Chromatography I: Derivation and Validation of an Equation for Gibbs Free Energy of Liquid–Solid Adsorption, 500
Thermodynamic Evaluation of Activated Charcoal as a Poison Antidote by High-Performance Liquid Chromatography II: In Vitro Method for the Evaluation of Activated Charcoal as a Poison Antidote, 506

Antiestrogenic activity
Biological Evaluation of Novel Cyclopropyl Analogues of Stilbene, Stilbenediol, and Phenanthrene for Estrogenic and Antiestrogenic Activity, 120

Antifertility agents
Identification of Senecionine and Senicionine *N*-Oxide as Antifertility Constituents in *Senecio vulgaris*, 461

Antifungal agents
5-{[Aryl or Aryloxy (or thio)]methyl}-3-(1*H*-imidazol-1-ylmethyl)-3-(2-thienyl)-2-methylisoxazolidine Derivatives as Novel Antifungal Agents, 1050

Anti-inflammatory agents
Pharmacokinetics of Ketoprofen Enantiomers in Healthy Subjects Following Single and Multiple Doses, 70
Pharmacokinetics of Ketoprofen Enantiomers in Young and Elderly Arthritic Patients following Single and Multiple Doses, 191
Structural Requirements for Binding of Nonsteroidal Anti-inflammatory Drugs to Human Serum Albumin, 251
Stereoselective Pharmacokinetics of Flurbiprofen in Humans and Rats, 666
Pharmacokinetics in Flunoxaprofen in Rats, Dogs, and Monkeys, 670
Nonsteroidal Anti-inflammatory Drugs: An Analysis of the Relationship between Laboratory Animal and Clinical Doses, Including Species Scaling, 790
Application of a Stereospecific High-Performance Liquid Chromatography Assay to a Pharmacokinetic Study of Etodolac Enantiomers in Humans, 963
Physical Characterization of Two Oxyphenbutazone Pseudopolymorphs, 1047

Antimicrobial agents
pH- and Medium-Dependent Degradation of Piperacillin during Susceptibility Tests on Antipseudomonal Activity, 367
Spectrophotometric Determination of Cycloserine with 9-Methoxyacridine, 452
Synthesis and Antibacterial Activity of 6-Difluoromethoxy-7-piperazinyl-3-quinolinecarboxylic Acid Derivatives, 458

Antimuscarinic activity
Desethylaprophen: A Metabolite of Aprophen with Antimuscarinic Activities, 145

Aprophen
Desethylaprophen: A Metabolite of Aprophen with Antimuscarinic Activities, 145

Arachidonic Acid
Inhibition of Leukotriene and Thromboxane Biosynthesis by a 9-(4-Chlorophenyl) Analogue of Arachidonic Acid, 149

Aspirin
Decomposition of Aspirin in the Solid State in the Presence of Limited Amounts of Moisture II: Kinetics and Salting-in of Aspirin in Aqueous Acetic Acid Solutions, 314
Decomposition of Aspirin in the Solid State in the Presence of Limited Amounts of Moisture III: Effect of Temperature and a Possible Mechanism, 318

Azone
Influence of 1-Dedecylhexahydro-2*H*-azepin-2-one (Azone) on the In Vitro Permeation of Verapamil Hydrochloride across Rat, Hairless Mouse, and Human Cadaver Skin, 776

Barbituric acids
Substituent Effects on Partition Coefficients of Barbituric Acids, 926

Benzodiazepines
Drug Interactions between Imipramine and Benzodiazepines in Rats, 56
Specific Inhibition of Benzodiazepine Receptor Binding by Some 1,2,3-Triazole Derivatives, 977

Benzoic acid
Kinetics of Peritoneal Drug Transport in Rats: An Application of the Pore Theory of Transcapillary Exchange, 481

Betamethasone
Determination of Betamethasone 17-Benzoate in Lipophylic Vehicles by Reversed-Phase High-Performance Liquid Chromatography, 638

Betaxolol
Absolute Bioavailability and Dose Proportionality of Betaxolol in Normal Healthy Subjects, 779

Bile acids
Bile Acid Binding and Hypocholesterolemic Activity of a New Anion Exchange Resin from 2-Methylimidazol and Epichlorohydrin, 531
Quantitative Relationship between Bile Acid Structure and Biliary Lipid Secretion in Rats, 596

Bile salts
Bile Salt Binding Properties of Commonly Used Gastrointestinal Drugs: Maalox, Carafate, and Questran, 527
Silicone Polymer Uptake Method for Determination of Cholesterol Thermodynamic Activity in Model Bile Systems, 610

Binding studies
Effect of Temperature and Fat Content on the Binding of Hydrochlorothiazide and Chlorothiazide to Milk, 334
Protein Binding of Ceftriaxone in Extravascular Fluids, 401
Differential Effect of Pentobarbital and Chloralose in Anesthetic Doses on the Serum Protein Binding of Lidocaine in the Dog, 466
Bile Salt Binding Properties of Commonly Used Gastrointestinal Drugs: Maalox, Carafate, and Questran, 527
Bile Acid Binding and Hypocholesterolemic Activity of a New Anion Exchange Resin from 2-Methylimidazol and Epichlorohydrin, 531
Peritoneal Transport of β-Lactam Antibiotics: Effects of Plasma Protein Binding and the Interspecies Relationship, 559
Influence of Maternal Plasma Protein Binding on Fetal Unbound Plasma Concentration of Propranolol in the Pregnant Ewe, 835
Influence of Gamma Radiation on the Gel Rigidity Index and Binding Capability of Gelatin, 876
Prednisolone Binding to Plasma Proteins in Domestic Species, 937
Specific Inhibition of Benzodiazepine Receptor Binding by Some 1,2,3-Triazole Derivatives, 977
Human Serum and Plasma Protein Binding of Enoximone and Its Sulfoxide Metabolite, 1012
Interactions of Antiarrhythmics with Artificial Phospholipid Membranes, 1018
Equilibrium Uptake of D-Glucose by Osmotically Stressed Unilamellar Phospholipid Vesicles, 1021

Bioavailability
Effects of Food on the Bioavailability of Sustained-Release Pinacidil in Humans, 68
Physicochemical Basis of Increased Bioavailability of a Poorly Water-Soluble Drug following Oral Administration as Organic Solutions, 325
Effects of Concentration and Volume on Nasal Bioavailability and Biological Response to Desmopressin, 337
Effect of Vehicle Amphiphilicity on the Dissolution and Bioavailability of a Poorly Water-Soluble Drug from Solid Dispersions, 414
Mean Apical Concentration and Duration in the Comparative Bioavailability of Slowly Absorbed and Eliminated Drug Preparations, 477
Bioavailability and Pharmacokinetics of Oral Dopamine in Dogs, 565
Two Assays for Dihydrocodeine in Plasma and in Urine and Their Use to Determine the Bioavailability of a Controlled-Release Product, 606
In Vitro Evaluation of a Sustained-Release Veterinary Peroral Pellet Preparation, 757
Absolute Bioavailability and Dose Proportionality of Betaxolol in Normal Healthy Subjects, 779
Isomerization of Cephalosporin Esters: Implications for the Prodrug Ester Approach to Enhancing the Oral Bioavailabilities of Cephalosporins, 906
Characteristics of Drug-Phospholipid Coprecipitates II: Bioavailability Studies of Griseofulvin in Rats, 933
Relative Bioavailability of Immediate- and Sustained-Release Hydralazine Formulations, 1026

Caffeine
Caffeine as a Potential Risk Factor for Theophylline Neurotoxicity, 745
Potential Metabolic Mutagens of Caffeine and Various Methylxanthines, 955

Calcification
Prevention of Calcification of Bioprosthetic Heart Valve Leaflets by Ca^{2+} Diphosphonate Pretreatment, 740

Capsule technology
Hard Capsules, Development and Technology (Augsburger, book review), 733

Captopril
Passive and Carrier-Mediated Intestinal Absorption Components of Captopril, 1007

Carafate
Bile Salt Binding Properties of Commonly Used Gastrointestinal Drugs: Maalox, Carafate, and Questran, 527

Carbenoxolone
Determination of the Partition Coefficients, Acid Dissociation Constants, and Intrinsic Solubility of Carbenoxolone, 548

Carboplatin
Liquid Chromatographic Procedure for the Quantitative Analysis of Carboplatin in Beagle Dog Plasma Ultrafiltrate, 273

Carboxylic acids
Rate of Release of Organic Carboxylic Acids from Ion-Exchange Resins, 872

Catechols
Evaluation of the Cytotoxic Potential of Catechols and Quinones Structurally Related to Butylated Hydroxyanisole, 393

Cefazolin
Identification of Organic Salts Formed by Interaction with Cefazolin and Aminoglycoside Antibiotics, 468
Interindividual Changes in Volume of Distribution of Cefazolin in Newborn Infants and Its Prediction Based on Physiological Pharmacokinetic Concepts, 674

Cefotaxime
Photodegradation Paths of Cefotaxime, 699

Cefoxitin
Absorption Enhancement of Rectally Infused Cefoxitin by Medium Chain Monoglycerides in Conscious Rats, 847

Ceftriaxone
Protein Binding of Ceftriaxone in Extravascular Fluids, 401

Cephaloridine
Zero-Crossing Derivative Spectrophotometry for the Determination of Mixtures of Cephaloridine and Cephalothin in Pure and Dosage Forms, 615

Cephalosporin
Isomerization of Cephalosporin Esters: Implications for the Prodrug Ester Approach to Enhancing the Oral Bioavailabilities of Cephalosporins, 906

Cephalothin
Zero-Crossing Derivative Spectrophotometry for the Determination of Mixtures of Cephaloridine and Cephalothin in Pure and Dosage Forms, 615

Cerebrospinal fluid
Effect of Alteration of Cerebrospinal Fluid Bulk Flow on Nicotine Cerebrospinal Fluid Exit Transfer Kinetics, 571

Charcoal
Thermodynamic Evaluation of Activated Charcoal as a Poison Antidote by High-Performance Liquid Chromatography I: Derivation and Validation of an Equation for Gibbs Free Energy of Liquid–Solid Adsorption, 500
Thermodynamic Evaluation of Activated Charcoal as a Poison Antidote by High-Performance Liquid Chromatography II: In Vitro Method for the Evaluation of Activated Charcoal as a Poison Antidote, 506
Stereoselective Gastrointestinal Clearance of Disopyramide in Rabbits Treated with Activated Charcoal, 959

Charge transfer complexes
Charge Transfer Complexes of Indole:Catechol Type II, 544

Chloral hydrate
Hydrogen-Bonded Complexes between Chloral Hydrate and Halide Ions in Aqueous Solution, 622

Chloralose
Differential Effect of Pentobarbital and Chloralose in Anesthetic Doses on the Serum Protein Binding of Lidocaine in the Dog, 466

Chloramphenicol
Adamantylmethyl Analogues of Chloramphenicol, 643
Reversed-Phase Liquid Chromatographic Separation of Enantiomeric and Diastereomeric Bases Related to Chloramphenicol and Thiamphenicol, 1062

Chloroquine
Role of Lysosomes in Hepatic Accumulation of Chloroquine, 196

Chlorothiazide
Effect of Temperature and Fat Content on the Binding of Hydrochlorothiazide and Chlorothiazide to Milk, 334

Chlorpheniramine
Skin Permeation of Chlorpheniramine Maleate and Detection of Demethylated Metabolites by High-Performance Liquid Chromatography, 188
Simultaneous Determination of Pseudoephedrine Hydrochloride, Chlorpheniramine Maleate, and Dextromethorphan Hydrobromide by Second-Derivative Photodiode Array Spectroscopy, 715

Chlorzoxazone
Pharmacodynamics of Chlorzoxazone in Rats, 383

Cholesterol
Silicone Polymer Uptake Method for Determination of Cholesterol Thermodynamic Activity in Model Bile Systems, 610

Chromatography
Determination of Temazepam and Related Compounds in Capsules by High-Performance Liquid Chromatography, 87
Determination of the Total and Partial Cohesion Parameters of Lipophilic Liquids by Gas–Liquid Chromatography and from Molecular Properties, 169
Skin Permeation of Chlorpheniramine Maleate and Detection of Demethylated Metabolites by High-Performance Liquid Chromatography, 188
Quantitative Determination of Disodium Edetate in Ophthalmic and Contact Lens Care Solutions by Reversed-Phase High-Performance Liquid Chromatography, 247
Liquid Chromatographic Procedure for the Quantitative Analysis of Carboplatin in Beagle Dog Plasma Ultrafiltrate, 273
High-Performance Liquid Chromatography with Electrochemical Detection for the Determination of Nicotine in Plasma, 277
High-Performance Liquid Chromatography of a New 1,4-Dihydropyridine: Applications to Pharmacokinetics Study in Dogs, 387
Thermodynamic Evaluation of Activated Charcoal as a Poison Antidote by High-Performance Liquid Chromatography I: Derivation and Validation of an Equation for Gibbs Free Energy of Liquid–Solid Adsorption, 500
Thermodynamic Evaluation of Activated Charcoal as a Poison Antidote by High-Performance Liquid Chromatography II: In Vitro Method for the Evaluation of Activated Charcoal as a Poison Antidote, 506
Determination of Fluconazole in Biological Fluids by Capillary Column Gas Chromatography with a Nitrogen Detector, 534
Sensitive Electrochemical High-Performance Liquid Chromatography Assay for the Simultaneous Determination of Haloperidol and Reduced Haloperidol, 541
High-Performance Liquid Chromatographic Assay of the Aldose Reductase Inhibitor Spiro-(2-fluoro-9H-fluorene-9,4′-imidazolidine)-2′,5′-dione (AL01567) in Plasma and Urine and Its Pharmacokinetics in Humans, 591
Two Assays for Dihydrocodeine in Plasma and in Urine and Their Use to Determine the Bioavailability of a Controlled-Release Product, 606
Studies on the Stability of Vinblastine Sulfate in Aqueous Solution, 630
Determination of Betamethasone 17-Benzoate in Lipophylic Vehicles by Reversed-Phase High-Performance Liquid Chromatography, 638
Determination of Fat-Soluble Vitamins in a Pharmaceutical Dosage Form by Solid-Phase Extraction and Reversed-Phase Liquid Chromatography, 802
Simultaneous Determination of Tamoxifen Citrate and Its *E* Isomer Impurity in Bulk Drug and Tablets by High-Performance Liquid Chromatography, 810
Stereoselective Disposition of the Geometric Isomers of a Novel Lipoxygenase Cyclo-oxygenase Inhibitor in Dog and Photochemical Interconversion of Its Isomers, 880
High-Performance Liquid Chromatographic Methods for the Determination of Ranitidine and Related Substances in Raw Materials and Tablets, 889
Determination of Pharmaceutical Compounds in Animal Feeds Using High-Performance Liquid Chromatography with Refractive Index Detection, 902
Application of a Stereospecific High-Performance Liquid Chromatography Assay to a Pharmacokinetic Study of Etodolac Enantiomers in Humans, 963
Determination of Propranolol Enantiomers in Human Plasma and Urine and in Rat Tissues Using Chiral Stationary-Phase Liquid Chromatography, 993
Uptake into Mouse Brain of Four Compounds Present in the Psychoactive Beverage Kava, 1003
Reversed-Phase Liquid Chromatographic Separation of Enantiomeric and Diastereomeric Bases Related to Chloramphenicol and Thiamphenicol, 1062

Circadian rhythm
Circadian Rhythm in Theophylline Disposition during a Constant-Rate Intravenous Infusion of Aminophylline in the Dog, 658

Clearance
Definitions and Applications of Mean Transit and Residence Times in Reference to the Two-Compartment Mammillary Plasma Clearance Model, 157

Contrast Media and Glomerular Filtration: Dose Dependence of Clearance for Three Agents, 765
Effect of Altered Albumin Concentrations on Elimination of Unbound Prazosin In Vivo in the Rat and in the Isolated Perfused Rat Liver, 948
Stereoselective Gastrointestinal Clearance of Disopyramide in Rabbits Treated with Activated Charcoal, 959

Clinical studies
Guide to Planning and Managing Multiple Clinical Studies (Hamrell, book review), 94

Cohesion parameters
Determination of the Total and Partial Cohesion Parameters of Lipophilic Liquids by Gas–Liquid Chromatography and from Molecular Properties, 169

Contrast media
Contrast Media and Glomerular Filtration: Dose Dependence of Clearance for Three Agents, 765

Cotinine
Disposition Kinetics of Nicotine and Cotinine Enantiomers in Rabbits and Beagle Dogs, 396

Cyclodextrins
Inclusion Complex Formation of 1,8-Dihydroxyanthraquinone with Cyclodextrins in Aqueous Solution and in Solid State, 523

Cyclo-oxygenase inhibitor
Stereoselective Disposition of the Geometric Isomers of a Novel Lipoxygenase Cyclo-oxygenase Inhibitor in Dog and Photochemical Interconversion of Its Isomers, 880

Cycloserine
Spectrophotometric Determination of Cycloserine with 9-Methoxyacridine, 452

Cyclosporine
Acute Cyclosporine Pretreatment Does Not Alter Onset of Loss of Righting Reflex during Intravenous Infusion of Phenobarbital in Rats, 996

Cytotoxicity
Evaluation of the Cytotoxic Potential of Catechols and Quinones Structurally Related to Butylated Hydroxyanisole, 393
Studies on Zoapatle VIII: Novel Cytotoxic Sesquiterpene Lactones from *Montanoa tomentosa* ssp. *microcephala*, 553
Effect of Age on Neurotoxicity of Theophylline, 645

Decomposition
Decomposition of Aspirin in the Solid State in the Presence of Limited Amounts of Moisture II: Kinetics and Salting-in of Aspirin in Aqueous Acetic Acid Solutions, 314
Decomposition of Aspirin in the Solid State in the Presence of Limited Amounts of Moisture III: Effect of Temperature and a Possible Mechanism, 318

Degradation
Kinetics and Mechanisms of Etodolac Degradation in Aqueous Solutions, 81
Kinetics and Mechanisms of Vinpocetine Degradation in Aqueous Solutions, 126
In Vitro Kinetic Studies of the Reaction of Hydralazine and Its Acetone Hydrazone with Pyruvic Acid, 280
pH- and Medium-Dependent Degradation of Piperacillin during Susceptibility Tests on Antipseudomonal Activity, 367
Studies on the Stability of Vinblastine Sulfate in Aqueous Solution, 630
Photodegradation Paths of Cefotaxime, 699
Stability of Morphine Solutions in Plastic Syringes Determined by Reversed-Phase Ion-Pair Liquid Chromatography, 719
Potentiation of the Antitumor Activity of 5-Fluoro-2′-deoxyuridine Esters in Combination with Acyclothymidine Esters on L1210 in Mice via Oral Administration, 939
Degradation Kinetics of Phentolamine Hydrochloride in Solution, 972
A Rapid Sample Clean-Up for Determining 5-Hydroxymethylfurfural in Dextrose:Theophylline Injection, 1066

***O*-Demethylation**
O-Demethylation of Pyrilamine, 727

Desipramine
Parallel Pathway Interactions in Imipramine Metabolism in Rats, 944

Desmethoxyyangonin
Uptake into Mouse Brain of Four Compounds Present in the Psychoactive Beverage Kava, 1003

Desmopressin
Effects of Concentration and Volume on Nasal Bioavailability and Biological Response to Desmopressin, 337
Effect of Viscosity on Particle Size, Deposition, and Clearance of Nasal Delivery Systems Containing Desmopressin, 405

Dextromethorphan
Simultaneous Determination of Pseudoephedrine Hydrochloride, Chlorpheniramine Maleate, and Dextromethorphan Hydrobromide by Second-Derivative Photodiode Array Spectroscopy, 715

Dextrose
A Rapid Sample Clean-Up for Determining 5-Hydroxymethylfurfural in Dextrose:Theophylline Injection, 1066

Diazepam
Drug Interactions between Imipramine and Benzodiazepines in Rats, 56

Dicloxacillin
Second-Derivative Spectrophotometric Assay of Mixtures of Dicloxacillin Sodium and Ampicillin Sodium in Pharmaceuticals, 1042

Diethyl-β-cyclodextrin
Utilization of Diethyl-β-cyclodextrin as a Sustained-Release Carrier for Isosorbide Dinitrate, 233

Diethyl malonate
Distribution and Fate of Diethyl Malonate and Diisopropyl Fluorophosphate on Pig Skin In Vitro, 850

Differential pulse polarography
Determination of Tetracycline Hydrochloride in Presence of Anhydrotetracycline by Differential Pulse Polarography, 78

α-Difluoromethylornithine
Electrochemistry of the Anticancer Agents Methotrexate and α-Difluoromethylornithine in Iminium Form, 999

Digitonin
2-Hydroxypropyldigitonin: Synthesis and Properties of Preparations Differing in Degree of Substitution, 640

Digoxin
Transport of Digoxin into Brain Microvessels and Choroid Plexuses Isolated from Guinea Pig, 347

Dihydrocodeine
Two Assays for Dihydrocodeine in Plasma and in Urine and Their Use to Determine the Bioavailability of a Controlled-Release Product, 606

Dihydrokawain
Uptake into Mouse Brain of Four Compounds Present in the Psychoactive Beverage Kava, 1003

1,4-Dihydropyridine
High-Performance Liquid Chromatography of a New 1,4-Dihydropyridine: Applications to Pharmacokinetics Study in Dogs, 387

Diisopropyl fluorophosphate
Distribution and Fate of Diethyl Malonate and Diisopropyl Fluorophosphate on Pig Skin In Vitro, 850

Diphosphonate
Prevention of Calcification of Bioprosthetic Heart Valve Leaflets by Ca^{2+} Diphosphonate Pretreatment, 740

Disodium edetate
Quantitative Determination of Disodium Edetate in Ophthalmic and Contact Lens Care Solutions by Reversed-Phase High-Performance Liquid Chromatography, 247

Dispyramide
Stereoselective Gastrointestinal Clearance of Disopyramide in Rabbits Treated with Activated Charcoal, 959

Dissociation constants
Determination of the Partition Coefficients, Acid Dissociation Constants, and Intrinsic Solubility of Carbenoxolone, 548

Dissolution
Physicochemical Basis of Increased Bioavailability of a Poorly Water-Soluble Drug following Oral Administration as Organic Solutions, 325
Effect of Vehicle Amphiphilicity on the Dissolution and Bioavailability of a Poorly Water-Soluble Drug from Solid Dispersions, 414
Reaction Plane Approach for Estimating the Effects of Buffers on the Dissolution Rate of Acidic Drugs, 511
Effect of pH on the In Vitro Dissolution and In Vivo Absorption of Controlled-Release Theophylline in Dogs, 760

Theoretical Analysis of the Release of Drug from Completely Dissolving Carriers Containing Drug Particles, 861
Characteristics of Drug-Phospholipid Coprecipitates II: Bioavailability Studies of Griseofulvin in Rats, 933
Physical Characterization of Two Oxyphenbutazone Pseudopolymorphs, 1047

Dopamine
Bioavailability and Pharmacokinetics of Oral Dopamine in Dogs, 565

Dosing regimens
Impact of Dosage Regimens on the Efficacy of Piperacillin against *Pseudomonas aeruginosa* in Neutropenic Mice, 991

Doxorubicin
Potential Pitfalls in In Vitro Antitumor Activity Testing of Free and Liposome-Entrapped Doxorubicin, 823

Drug delivery systems
Vasopressin: A Model for the Study of Effects of Additives on the Oral and Rectal Administration of Peptide Drugs, 33
Effects of Food on the Bioavailability of Sustained-Release Pinacidil in Humans, 68
Test Method for Evaluation of Loss of Prime in Metered-Dose Aerosols, 90
Controlled Drug Delivery: Fundamentals and Applications (Tyle, book review), 94
Biodegradable Microspheres VII: Alterations in Mouse Liver Morphology after Intravenous Administration of Polyacryl Starch Microparticles with Different Biodegradability, 138
Dry Adsorbed Emulsions: An Oral Sustained Drug Delivery System, 216
Solute Release from a Porous Polymeric Matrix: Inwardly Tapered Disk With a Central Releasing Hole, 222
Utilization of Diethyl-β-cyclodextrin as a Sustained-Release Carrier for Isosorbide Dinitrate, 233
Rate-Controlled Drug Administration and Action (Banakar, book review), 284
Perforated Coated Tablets for Controlled Release of Drugs at a Constant Rate, 322
Effects of Concentration and Volume on Nasal Bioavailability and Biological Response to Desmopressin, 337
Drugs Administered Directly into the Respiratory Tract: Modeling of the Duration of Effective Drug Levels, 340
Transdermal Controlled Systemic Medications (Noonan, book review), 370
Controlled Release of Biologically Active Agents (Chien, book review), 371
Effect of Viscosity on Particle Size, Deposition, and Clearance of Nasal Delivery Systems Containing Desmopressin, 405
Effect of Vehicle Amphiphilicity on the Dissolution and Bioavailability of a Poorly Water-Soluble Drug from Solid Dispersions, 414
Nuclear Magnetic Resonance Study of an Ethyl Cellulose Sustained-Release Delivery System I: Effect of Casting Solvent on Hydration Properties, 425
Nuclear Magnetic Resonance Study of an Ethyl Cellulose Sustained-Release Delivery System II: Release Rate Behavior of Tetracycline, 428
Effect of Lipid Composition on Insulin-Mediated Fusion of Small Unilamellar Liposomes: A Kinetic Study, 432
Influence of Constant Current Iontophoresis on the Impedance and Passive Na^+ Permeability of Excised Nude Mouse Skin, 492
Two Assays for Dihydrocodeine in Plasma and in Urine and Their Use to Determine the Bioavailability of a Controlled-Release Product, 606
Intragastric Behavior and Absorption Kinetics of a Normal and "Floating" Modified-Release Capsule of Isradipine under Fasted and Fed Conditions, 647
A Novel Dosing Method for Drug Administration to the Airways of the Isolated Perfused Rat Lung, 693
Pharmacokinetic Evaluation of a Sustained-Release Formulation of Trihexyphenidyl in Healthy Volunteers, 748
In Vitro Evaluation of a Sustained-Release Veterinary Peroral Pellet Preparation, 757
Effect of pH on the In Vitro Dissolution and In Vivo Absorption of Controlled-Release Theophylline in Dogs, 760
Oral Sustained Release Formulations: Design and Evaluation (Theeuwes, book review), 821
Theoretical Analysis of the Release of Drug from Completely Dissolving Carriers Containing Drug Particles, 861
Improved Delivery through Biological Membranes XXXI: Solubilization and Stabilization of an Estradiol Chemical Delivery System by Modified β-Cyclodextrins, 981
Relative Bioavailability of Immediate- and Sustained-Release Hydralazine Formulations, 1026

Drug design
Biological Methylation and Drug Design. Experimental and Clinical Roles of *S*-Adenosylmethionine (Crooks, book review), 94

Drug determination
Sensitive Electrochemical High-Performance Liquid Chromatography Assay for the Simultaneous Determination of Haloperidol and Reduced Haloperidol, 541

Drug development
Orphan Diseases and Orphan Drugs (Adams, book review), 95
1-Aryl-3-(2-chloroethyl) Ureas: Synthesis and In Vitro Assay as Potential Anticancer Agents, 185
Glycolamide Esters as Biolabile Prodrugs of Carboxylic Acid Agents: Synthesis, Stability, Bioconversion, and Physicochemical Properties, 285
Trends in Medicinal Chemistry (Proceedings of the Ninth International Symposium on Medicinal Chemistry, Berlin 1986.) (Sloan, book review), 370
Synthesis and Antibacterial Activity of 6-Difluoromethoxy-7-piperazinyl-3-quinolinecarboxylic Acid Derivatives, 458
2-Hydroxypropyldigitonin: Synthesis and Properties of Preparations Differing in Degree of Substitution, 640
Optimized Synthesis of Polyglutaraldehyde Nanoparticles Using Central Composite Design, 704
Biopharmaceutical Statistics for Drug Development (Metzler, book review), 733
Synthesis of Some Substituted Quinazolinediones as Potential Inhibitors of Smooth Muscle Contraction, 735
Antipsychotic Properties of New *N*-(4-Substituted-1-Piperazinylethyl)- and *N*-(4-Substituted-1-Piperidinylethyl)-Phthalimides, 898

Drug distribution
Relationship between Human Milk Lipid–Ultrafiltrate and Octanol–Water Partition Coefficients, 796

Drug identification
Zero-Crossing Derivative Spectrophotometry for the Determination of Mixtures of Cephaloridine and Cephalothin in Pure and Dosage Forms, 615
Simultaneous Determination of Pseudoephedrine Hydrochloride, Chlorpheniramine Maleate, and Dextromethorphan Hydrobromide by Second-Derivative Photodiode Array Spectroscopy, 715
Simultaneous Determination of Tamoxifen Citrate and Its *E* Isomer Impurity in Bulk Drug and Tablets by High-Performance Liquid Chromatography, 810
High-Performance Liquid Chromatographic Methods for the Determination of Ranitidine and Related Substances in Raw Materials and Tablets, 889
Determination of Pharmaceutical Compounds in Animal Feeds Using High-Performance Liquid Chromatography with Refractive Index Detection, 902
Determination of Propranolol Enantiomers in Human Plasma and Urine and in Rat Tissues Using Chiral Stationary-Phase Liquid Chromatography, 993
Second-Derivative Spectrophotometric Assay of Mixtures of Dicloxacillin Sodium and Ampicillin Sodium in Pharmaceuticals, 1042

Drug polymorphism
Polymorphic Differences in α- and β-Form Crystals of 2*R*, 4*S*, 6-Fluoro-2-methyl-spiro[chroman-4,4′-imidazoline]-2′,5-dione (M79175) as Determined by X-ray Diffraction, Infrared Spectroscopy, and Differential Scanning Calorimetry, 635

Drug transport
Mechanisms of Corneal Drug Penetration III: Modeling of Molecular Transport, 24
Transport of Digoxin into Brain Microvessels and Choroid Plexuses Isolated from Guinea Pig, 347
Moment Analysis of Drug Disposition in Kidney: Transcellular Transport Kinetics of *p*-Aminohippurate in the Isolated Perfused Rat Kidney, 471
Kinetics of Peritoneal Drug Transport in Rats: An Application of the Pore Theory of Transcapillary Exchange, 481
Peritoneal Transport of β-Lactam Antibiotics: Effects of Plasma Protein Binding and the Interspecies Relationship, 559
Membrane-Limited Hepatic Transport of the Conjugative Metabolites of 4-Methylumbelliferone in Rats, 688

Dry adsorbed emulsions
Dry Adsorbed Emulsions: An Oral Sustained Drug Delivery System, 216

Dyphylline
Dyphylline Prodrugs: Plasma Hydrolylsis and Dyphylline Release in Rabbits, 104

Electron transfer
Electrochemistry of the Anticancer Agents Methotrexate and α-Difluoromethylornithine in Iminium Form, 999

Electrophoresis
Isoelectric Points of Some Sulfonamides: Determination by Microelectrophoresis and by Calculations Involving Acid–Base Strength, 918

Enkephalinamide
Systemic Absorption of Ocularly Administered Enkephalinamide and Inulin in the Albino Rabbit: Extent, Pathways, and Vehicle Effects, 838

Enoximone
Human Serum and Plasma Protein Binding of Enoximone and Its Sulfoxide Metabolite, 1012

Epichlorohydrin
Bile Acid Binding and Hypocholesterolemic Activity of a New Anion Exchange Resin from 2-Methylimidazol and Epichlorohydrin, 531

Epidermal growth factor
Kinetic Analysis of In Vivo Receptor-Dependent Binding of Human Epidermal Growth Factor by Rat Tissues, 200

Estradiol
Improved Delivery through Biological Membranes XXXI: Solubilization and Stabilization of an Estradiol Chemical Delivery System by Modified β-Cyclodextrins, 981

Estrogenic activity
Biological Evaluation of Novel Cyclopropyl Analogues of Stilbene, Stilbenediol, and Phenanthrene for Estrogenic and Antiestrogenic Activity, 120

Ethanol
Experimental Model for the Investigation of Kinetic and/or Dynamic Interactions between Drugs and Ethanol in Humans, 299

Ethyl cellulose
Nuclear Magnetic Resonance Study of an Ethyl Cellulose Sustained-Release Delivery System I: Effect of Casting Solvent on Hydration Properties, 425
Nuclear Magnetic Resonance Study of an Ethyl Cellulose Sustained-Release Delivery System II: Release Rate Behavior of Tetracycline, 428

Etodolac
Kinetics and Mechanisms of Etodolac Degradation in Aqueous Solutions, 81
Application of a Stereospecific High-Performance Liquid Chromatography Assay to a Pharmacokinetic Study of Etodolac Enantiomers in Humans, 963

Excipients
Effect of Excipients on Tablet Properties and Dissolution Behavior of Theophylline-Tableted Microcapsules under Different Compression Forces, 229
Application of Fractal Dimension to the Study of the Surface Ruggedness of Granular Solids and Excipients, 724
Effect of Binders on Sulfamethoxazole Tablets, 885

Extended least squares
Commentary on "Extended Least Squares (ELS) for Pharmacokinetic Models" (Sheiner and Beal, commentary), 731
Response to "Commentary on 'Extended Least Squares (ELS) for Pharmacokinetic Models (Metzler, commentary), 732

Film coatings
Studies of Interaction Phenomena in Aqueous-Based Film Coatings Containing Soluble Additives Using Thermal Analysis Techniques, 438

Fluconazole
Determination of Fluconazole in Biological Fluids by Capillary Column Gas Chromatography with a Nitrogen Detector, 534

Flumazenil
Experimental Model for the Investigation of Kinetic and/or Dynamic Interactions between Drugs and Ethanol in Humans, 299

Flunoxaprofen
Pharmacokinetics in Flunoxaprofen in Rats, Dogs, and Monkeys, 670

Fluorescein
Preparation and Characterization of Disodium Fluorescein Powders in Association with Lauric and Capric Acids, 804

Fluorescence
Fluorescence Study of the Membrane-Perturbing Action of Sodium Caprylate as Related to Promotion of Drug Absorption, 390

Fluphenazine
A Highly Sensitive and Specific Radioimmunoassay for Quantitation of Plasma Fluphenazine, 255

Flurbiprofen
Stereoselective Pharmacokinetics of Flurbiprofen in Humans and Rats, 666

Fractal analysis
Application of Fractal Dimension to the Study of the Surface Ruggedness of Granular Solids and Excipients, 724

Gelatin
Influence of Gamma Radiation on the Gel Rigidity Index and Binding Capability of Gelatin, 876

Glucose
Equilibrium Uptake of D-Glucose by Osmotically Stressed Unilamellar Phospholipid Vesicles, 1021

Glycolamides
Glycolamide Esters as Biolabile Prodrugs of Carboxylic Acid Agents: Synthesis, Stability, Bioconversion, and Physicochemical Properties, 285

Gold sodium thiomalate
Biological Action of Colorless and Yellow Solutions of Gold Sodium Thiomalate on Thrombin Activity and the Mixed Lymphocyte Reaction, 1033

Gossypol
Binding of Gossypol Derivatives to Human Serum Albumin, 237

Griseofulvin
Characteristics of Drug-Phospholipid CoprecipitatesII: Bioavailability Studies of Griseofulvin in Rats, 933

GTPase activity
Characterization of Low K_m GTPase Activity in Rat Brain: Comparison of Opioid and Muscarinic Receptor Stimulation, 353

Haloperidol
Sensitive Electrochemical High-Performance Liquid Chromatography Assay for the Simultaneous Determination of Haloperidol and Reduced Haloperidol, 541

Heart valves
Prevention of Calcification of Bioprosthetic Heart Valve Leaflets by Ca^{2+} Diphosphonate Pretreatment, 740

Helenalin
Inhibition of Nucleic Acid Synthesis in P-388 Lymphocytic Leukemia Tumor Cells by Helenalin and Bis(helenalinyl)malonate In Vivo, 178

Heparin
Aggregates in Heparin, 818
Response to "Aggregates in Heparin", 280

Hydantoins
Solubility and Partitioning IX: Solubility of Hydantoins in Water, 518

Hydralazine
In Vitro Kinetic Studies of the Reaction of Hydralazine and Its Acetone Hydrazone with Pyruvic Acid, 280
Relative Bioavailability of Immediate- and Sustained-Release Hydralazine Formulations, 1026

Hydration
Influence of Hydration on Epidermal Tissue, 1037

Hydrochlorothiazide
Effect of Temperature and Fat Content on the Binding of Hydrochlorothiazide and Chlorothiazide to Milk, 334

Hydrogon-bonded complexes
Hydrogen-Bonded Complexes between Chloral Hydrate and Halide Ions in Aqueous Solution, 622

Hydroxylamine
Determination of Hydroxylamine Traces in Propionohydroxamic Acid Bulk Drug and Pharmaceutical Preparations by Capillary Gas Chromatography, 711

5-Hydroxymethylfurfural
A Rapid Sample Clean-Up for Determining 5-Hydroxymethylfurfural in Dextrose:Theophylline Injection, 1066

5-Hydroxytryptamine
Further Insights into the Oxidation Chemistry of 5-Hydroxytryptamine, 911

Hypovolemia
Kinetics of Drug Action in Disease States XXIII: Effect of Acute Hypovolemia on the Pharmacodynamics of Phenobarbital in Rats, 365
Kinetics of Drug Action in Disease States XXVIII: Effect of Acute Hypovolemia on Theophylline-Induced Neurotoxicity in Rats, 729

Imipramine
Drug Interactions between Imipramine and Benzodiazepines in Rats, 56
Parallel Pathway Interactions in Imipramine Metabolism in Rats, 944

Initial slope technique
Initial Slope Technique to Estimate First- and Zero-Order Drug Absorption Rate Constants, 816

Insulin
Effect of Lipid Composition on Insulin-Mediated Fusion of Small Unilamellar Liposomes: A Kinetic Study, 432

Interaction models
Ab Initio Investigation of Interactions between Models of Local Anesthetics and Receptor: Complexes Involving Amine, Phosphate, Amide, Na^+, K^+, Ca^{2+}, and Cl^-, 304

Inulin
Systemic Absorption of Ocularly Administered Enkephalinamide and Inulin in the Albino Rabbit: Extent, Pathways, and Vehicle Effects, 838

Iohexol
Contrast Media and Glomerular Filtration: Dose Dependence of Clearance for Three Agents, 765

Ion-exchange resins
Rate of Release of Organic Carboxylic Acids from Ion-Exchange Resins, 872

Ion monitoring
Quantitative Selected Ion Monitoring Processing System: Software and Hardware for the Automated Collection and Analysis of Selected Ion Monitoring Data Acquired for Use in Pharmacokinetic Studies, 679

Iontophoresis
Characterization of the Pore Transport Properties and Tissue Alteration of Excised Human Skin during Iontophoresis, 132
Influence of Constant Current Iontophoresis on the Impedance and Passive Na^+ Permeability of Excised Nude Mouse Skin, 492

Isoelectric points
Isoelectric Points of Some Sulfonamides: Determination by Microelectrophoresis and by Calculations Involving Acid–Base Strength, 918

Isotchophoresis
Analytical Isotachophoresis (Siddiqui, book review), 910

Isoxazolidine derivatives
5-{[Aryl or Aryloxy (or thio)]methyl}-3-(1*H*-imidazol-1-ylmethyl)-3-(2-thienyl)-2-methylisoxazolidine Derivatives as Novel Antifungal Agents, 1050

Isradipine
Intragastric Behavior and Absorption Kinetics of a Normal and "Floating" Modified-Release Capsule of Isradipine under Fasted and Fed Conditions, 647

Kava
Uptake into Mouse Brain of Four Compounds Present in the Psychoactive Beverage Kava, 1003

Kawain
Uptake into Mouse Brain of Four Compounds Present in the Psychoactive Beverage Kava, 1003

Ketoconazole
5-{[Aryl or Aryloxy (or thio)]methyl}-3-(1*H*-imidazol-1-ylmethyl)-3-(2-thienyl)-2-methylisoxazolidine Derivatives as Novel Antifungal Agents, 1050

Ketoprofen
Pharmacokinetics of Ketoprofen Enantiomers in Healthy Subjects Following Single and Multiple Doses, 70
Pharmacokinetics of Ketoprofen Enantiomers in Young and Elderly Arthritic Patients following Single and Multiple Doses, 191

Kinetics
Kinetics and Mechanisms of Etodolac Degradation in Aqueous Solutions, 81
Kinetics and Mechanisms of Vinpocetine Degradation in Aqueous Solutions, 126
In Vitro Kinetic Studies of the Reaction of Hydralazine and Its Acetone Hydrazone with Pyruvic Acid, 280
Decomposition of Aspirin in the Solid State in the Presence of Limited Amounts of Moisture II: Kinetics and Salting-in of Aspirin in Aqueous Acetic Acid Solutions, 314
Decomposition of Aspirin in the Solid State in the Presence of Limited Amounts of Moisture III: Effect of Temperature and a Possible Mechanism, 318
Perforated Coated Tablets for Controlled Release of Drugs at a Constant Rate, 322
Drugs Administered Directly into the Respiratory Tract: Modeling of the Duration of Effective Drug Levels, 340
Kinetics of Drug Action in Disease States XXIII: Effect of Acute Hypovolemia on the Pharmacodynamics of Phenobarbital in Rats, 365
Disposition Kinetics of Nicotine and Cotinine Enantiomers in Rabbits and Beagle Dogs, 396
Effect of Lipid Composition on Insulin-Mediated Fusion of Small Unilamellar Liposomes: A Kinetic Study, 432
Kinetics of Peritoneal Drug Transport in Rats: An Application of the Pore Theory of Transcapillary Exchange, 481
Kinetics of Drug Action in Disease States XXVI: Effect of Fever on the Pharmacodynamics of Theophylline-Induced Seizures in Rats, 569
Intragastric Behavior and Absorption Kinetics of a Normal and "Floating" Modified-Release Capsule of Isradipine under Fasted and Fed Conditions, 647
Photodegradation Paths of Cefotaxime, 699
Kinetics of Drug Action in Disease States XXVIII: Effect of Acute Hypovolemia on Theophylline-Induced Neurotoxicity in Rats, 729
Degradation Kinetics of Phentolamine Hydrochloride in Solution, 972

Lactones
Studies on Zoapatle VIII: Novel Cytotoxic Sesquiterpene Lactones from *Montanoa tomentosa* ssp. *microcephala*, 553

Laurocapram
Unsaturated Cyclic Ureas as New Nontoxic Biodegradable Transdermal Penetration Enhancers I: Synthesis, 967

Leukotriene
Inhibition of Leukotriene and Thromboxane Biosynthesis by a 9-(4-Chlorophenyl) Analogue of Arachidonic Acid, 149

Lidocaine
Differential Effect of Pentobarbital and Chloralose in Anesthetic Doses on the Serum Protein Binding of Lidocaine in the Dog, 466

Liposomes
Effect of Lipid Composition on Insulin-Mediated Fusion of Small Unilamellar Liposomes: A Kinetic Study, 432
Potential Pitfalls in In Vitro Antitumor Activity Testing of Free and Liposome-Entrapped Doxorubicin, 823

Lysosomes
Role of Lysosomes in Hepatic Accumulation of Chloroquine, 196

Maalox
Bile Salt Binding Properties of Commonly Used Gastrointestinal Drugs: Maalox, Carafate, and Questran, 527

Magnesium stearate
Chemical, Physical, and Lubricant Properties of Magnesium Stearate, 625

Magnetic resonance imaging
Pharmacokinetics in the Rat and the Dog of a Nonionic Nitroxide Contrast Agent for Magnetic Resonance Imaging, 97

6-Mercaptopurine
Effects of Vehicles and Prodrug Properties and Their Interactions on the Delivery of 6-Mercaptopurine through Skin: 5^6-Acyloxymethyl-6-mercaptopurine Prodrugs, 210
Structure–Activity Relationship of 1-Alkyl- or 1-Alkenylazacycloalkanone Derivatives as Percutaneous Penetration Enhancers, 418

Metabolism
Differential Metabolism of the Enantiomers of Primaquine, 380
Parallel Pathway Interactions in Imipramine Metabolism in Rats, 944

Potential Metabolic Mutagens of Caffeine and Various Methylxanthines, 955

Methotrexate
Electrochemistry of the Anticancer Agents Methotrexate and α-Difluoromethylornithine in Iminium Form, 999

2-Methylimidazol
Bile Acid Binding and Hypocholesterolemic Activity of a New Anion Exchange Resin from 2-Methylimidazol and Epichlorohydrin, 531

4-Methylumbelliferone
Membrane-Limited Hepatic Transport of the Conjugative Metabolites of 4-Methylumbelliferone in Rats, 688

Methylxanthines
Potential Metabolic Mutagens of Caffeine and Various Methylxanthines, 955

Metoclopramide
Metoclopramide Pharmacokinetics in Pregnant and Nonpregnant Sheep, 373

Microcapsules
Effect of Excipients on Tablet Properties and Dissolution Behavior of Theophylline-Tableted Microcapsules under Different Compression Forces, 229

Microspheres
Polymeric Nanoparticles and Microspheres (Banakar, book review), 95
Biodegradable Microspheres VII: Alterations in Mouse Liver Morphology after Intravenous Administration of Polyacryl Starch Microparticles with Different Biodegradability, 138
Polyanhydride Microsphere Formulation by Solvent Extraction, 696

Mitomycin C
Behavior and Resorption of Mitomycin C following Multiple Intravesical Administrations, 843

Mixed lymphocyte response
Biological Action of Colorless and Yellow Solutions of Gold Sodium Thiomalate on Thrombin Activity and the Mixed Lymphocyte Reaction, 1033

Molecular orbital methods
Ab Initio Investigation of Interactions between Models of Local Anesthetics and Receptor: Complexes Involving Amine, Phosphate, Amide, Na^+, K^+, Ca^{2+}, and Cl^-, 304

Moment analysis
Moment Analysis of Drug Disposition in Kidney: Transcellular Transport Kinetics of *p*-Aminohippurate in the Isolated Perfused Rat Kidney, 471

Morphine
Stability of Morphine Solutions in Plastic Syringes Determined by Reversed-Phase Ion-Pair Liquid Chromatography, 719

Mutagens
Potential Metabolic Mutagens of Caffeine and Various Methylxanthines, 955

Myotrophic activity
Prodrugs Utilizing Organosilyl Derivation: An Investigation of the Long-Term Androgenic and Myotrophic Activities of Silyl Derivatives of Testosterone, 116

Nanoparticles
Distribution of Polyhexylcyanoacrylate Nanoparticles in Nude Mice over Extended Times and after Repeated Injection, 208
Optimized Synthesis of Polyglutaraldehyde Nanoparticles Using Central Composite Design, 704

Naproxen
Reaction Plane Approach for Estimating the Effects of Buffers on the Dissolution Rate of Acidic Drugs, 511

Nicotine
High-Performance Liquid Chromatography with Electrochemical Detection for the Determination of Nicotine in Plasma, 277
Disposition Kinetics of Nicotine and Cotinine Enantiomers in Rabbits and Beagle Dogs, 396
Effect of Alteration of Cerebrospinal Fluid Bulk Flow on Nicotine Cerebrospinal Fluid Exit Transfer Kinetics, 571

***N*-Nitroso compounds**
Relevance of *N*-Nitroso Compounds to Human Cancer. Exposures and Mechanisms (Wishnok, book review), 998

Nuclear magnetic resonance studies
Nuclear Magnetic Resonance Study of an Ethyl Cellulose Sustained-Release Delivery System I: Effect of Casting Solvent on Hydration Properties, 425
Nuclear Magnetic Resonance Study of an Ethyl Cellulose Sustained-Release Delivery System II: Release Rate Behavior of Tetracycline, 428
Influence of Hydration on Epidermal Tissue, 1037

Nucleic acid synthesis
Inhibition of Nucleic Acid Synthesis in P-388 Lymphocytic Leukemia Tumor Cells by Helenalin and Bis(helenalinyl)malonate In Vivo, 178

Ocular permeability
Mechanisms of Corneal Drug Penetration I: In Vivo and In Vitro Kinetics, 3
Mechanisms of Corneal Drug Penetration II: Ultrastructural Analysis of Potential Pathways for Drug Movement, 15
Mechanisms of Corneal Drug Penetration III: Modeling of Molecular Transport, 24
Mechanism of Transcorneal Permeation of Pilocarpine, 771
Systemic Absorption of Ocularly Administered Enkephalinamide and Inulin in the Albino Rabbit: Extent, Pathways, and Vehicle Effects, 838

Opiate receptors
Molecular Orbital Calculations of Proton Transfer Energetics in Model Systems: The Interaction of Opiate Agonists and Antagonists with Opiate Receptors, 986

Orphan drugs
Orphan Diseases and Orphan Drugs (Adams, book review), 95

Oxidation
Further Insights into the Oxidation Chemistry of 5-Hydroxytryptamine, 911

Oxyphenbutazone
Physical Characterization of Two Oxyphenbutazone Pseudopolymorphs, 1047

Partition coefficients
Activated Carbon as a Biological Model: Comparison between Activated Carbon Adsorption and Oil–Water Partition Coefficient for Drug Activity Correlation, 166
A Novel Method for Measuring Membrane–Water Partition Coefficients of Hydrophobic Organic Chemicals: Comparison with 1-Octanol–Water Partitioning, 265
Determination of the Partition Coefficients, Acid Dissociation Constants, and Intrinsic Solubility of Carbenoxolone, 548
Relationship between Human Milk Lipid–Ultrafiltrate and Octanol–Water Partition Coefficients, 796
Substituent Effects on Partition Coefficients of Barbituric Acids, 926

Pelrinone
Preformulation Study of Pelrinone Hydrochloride, 921

Penetration enhancers
Unsaturated Cyclic Ureas as New Nontoxic Biodegradable Transdermal Penetration Enhancers I: Synthesis, 967

Pentobarbital
Differential Effect of Pentobarbital and Chloralose in Anesthetic Doses on the Serum Protein Binding of Lidocaine in the Dog, 466

Percutaneous transport
Characterization of the Pore Transport Properties and Tissue Alteration of Excised Human Skin during Iontophoresis, 132
Skin Permeation of Chlorpheniramine Maleate and Detection of Demethylated Metabolites by High-Performance Liquid Chromatography, 188
Effects of Vehicles and Prodrug Properties and Their Interactions on the Delivery of 6-Mercaptopurine through Skin: S^6-Acyloxymethyl-6-mercaptopurine Prodrugs, 210
Penetration of Adenosine into Excised Human Skin from Binary Vehicles: The Enhancement Factor, 409
Structure–Activity Relationship of 1-Alkyl- or 1-Alkenylazacycloalkanone Derivatives as Percutaneous Penetration Enhancers, 418
Percutaneous Absorption of Sulconazole Nitrate in Humans, 489
Skin Pharmacokinetics. Pharmacology and Skin, Volume 1 (Guy, book review), 557
Influence of 1-Dedecylhexahydro-2*H*-azepin-2-one (Azone) on the In Vitro Permeation of Verapamil Hydrochloride across Rat, Hairless Mouse, and Human Cadaver Skin, 776
Distribution and Fate of Diethyl Malonate and Diisopropyl Fluorophosphate on Pig Skin In Vitro, 850

Permeability
Mechanisms of Corneal Drug Penetration I: In Vivo and In Vitro Kinetics, 3
Mechanisms of Corneal Drug Penetration II: Ultrastructural Analysis of Potential Pathways for Drug Movement, 15

Mechanisms of Corneal Drug Penetration III: Modeling of Molecular Transport, 24
Fluorescence Study of the Membrane-Perturbing Action of Sodium Caprylate as Related to Promotion of Drug Absorption, 390
Influence of Constant Current Iontophoresis on the Impedance and Passive Na^+ Permeability of Excised Nude Mouse Skin, 492
Membrane–Solvent–Solute Interaction in a Model Permeation System, 536
Peritoneal Transport of β-Lactam Antibiotics: Effects of Plasma Protein Binding and the Interspecies Relationship, 559
Membrane-Limited Hepatic Transport of the Conjugative Metabolites of 4-Methylumbelliferone in Rats, 688
Improved Delivery through Biological Membranes XXXI: Solubilization and Stabilization of an Estradiol Chemical Delivery System by Modified β-Cyclodextrins, 981
Passive and Carrier-Mediated Intestinal Absorption Components of Captopril, 1007
Interactions of Antiarrhythmics with Artificial Phospholipid Membranes, 1018

Pharmacodynamics
A System Approach to Pharmacodynamics I: Theoretical Framework, 39
A System Approach to Pharmacodynamics II: Glyburide Pharmacodynamics and Estimation of Optimal Drug Delivery, 48
Kinetics of Drug Action in Disease States XXIII: Effect of Acute Hypovolemia on the Pharmacodynamics of Phenobarbital in Rats, 365
Pharmacodynamics of Chlorzoxazone in Rats, 383
Kinetics of Drug Action in Disease States XXVI: Effect of Fever on the Pharmacodynamics of Theophylline-Induced Seizures in Rats, 569

Pharmacokinetics
Mechanisms of Corneal Drug Penetration I: In Vivo and In Vitro Kinetics, 3
A System Approach to Pharmacodynamics I: Theoretical Framework, 39
Drug Interactions between Imipramine and Benzodiazepines in Rats, 56
Pharmacokinetics of Veralipride after Chronic Administration in Humans, 64
Pharmacokinetics of Ketoprofen Enantiomers in Healthy Subjects Following Single and Multiple Doses, 70
Clinical Pharmacokinetics of Sulfonamides and Their Metabolites. An Encyclopedia. Volume 37. Antibiotics and Chemotherapy (Suber, book review), 96
Pharmacokinetics in the Rat and the Dog of a Nonionic Nitroxide Contrast Agent for Magnetic Resonance Imaging, 97
Dyphylline Prodrugs: Plasma Hydrolylsis and Dyphylline Release in Rabbits, 104
Disposition of the Aldose Reductase Inhibitor AL01576 in Rats, 110
Disposition of [^{14}C]Pinacidil in Humans, 153
Definitions and Applications of Mean Transit and Residence Times in Reference to the Two-Compartment Mammillary Plasma Clearance Model, 157
Pharmacokinetics of Ketoprofen Enantiomers in Young and Elderly Arthritic Patients following Single and Multiple Doses, 191
Kinetic Analysis of In Vivo Receptor-Dependent Binding of Human Epidermal Growth Factor by Rat Tissues, 200
Rate-Controlled Drug Administration and Action (Banakar, book review), 284
Experimental Model for the Investigation of Kinetic and/or Dynamic Interactions between Drugs and Ethanol in Humans, 299
3-Hydroxylation of Salicylamide in Mice, 309
Propranolol Elimination as Described by the Venous Equilibrium Model Using Flow Perturbations in the Isolated Perfused Rat Liver, 330
Drugs Administered Directly into the Respiratory Tract: Modeling of the Duration of Effective Drug Levels, 340
Relationship between Lipophilicity and Tubular Reabsorption for a Series of 5-Alkyl-5-ethylbarbituric Acids in the Isolated Perfused Rat Kidney Preparation, 359
Metoclopramide Pharmacokinetics in Pregnant and Nonpregnant Sheep, 373
Differential Metabolism of the Enantiomers of Primaquine, 380
High-Performance Liquid Chromatography of a New 1,4-Dihydropyridine: Applications to Pharmacokinetics Study in Dogs, 387
Disposition Kinetics of Nicotine and Cotinine Enantiomers in Rabbits and Beagle Dogs, 396
Mean Apical Concentration and Duration in the Comparative Bioavailability of Slowly Absorbed and Eliminated Drug Preparations, 477
Determination of Fluconazole in Biological Fluids by Capillary Column Gas Chromatography with a Nitrogen Detector, 534
Skin Pharmacokinetics. Pharmacology and Skin, Volume 1 (Guy, book review), 557
Peritoneal Transport of β-Lactam Antibiotics: Effects of Plasma Protein Binding and the Interspecies Relationship, 559
Bioavailability and Pharmacokinetics of Oral Dopamine in Dogs, 565
Effect of Alteration of Cerebrospinal Fluid Bulk Flow on Nicotine Cerebrospinal Fluid Exit Transfer Kinetics, 571
High-Performance Liquid Chromatographic Assay of the Aldose Reductase Inhibitor Spiro-(2-fluoro-9H-fluorene-9,4′-imidazolidine)-2′,5′-dione (AL01567) in Plasma and Urine and Its Pharmacokinetics in Humans, 591
Intragastric Behavior and Absorption Kinetics of a Normal and "Floating" Modified-Release Capsule of Isradipine under Fasted and Fed Conditions, 647
Circadian Rhythm in Theophylline Disposition during a Constant-Rate Intravenous Infusion of Aminophylline in the Dog, 658
Effect of Amiodarone on the Disposition of Procainamide in the Rat, 662
Stereoselective Pharmacokinetics of Flurbiprofen in Humans and Rats, 666
Pharmacokinetics in Flunoxaprofen in Rats, Dogs, and Monkeys, 670
Interindividual Changes in Volume of Distribution of Cefazolin in Newborn Infants and Its Prediction Based on Physiological Pharmacokinetic Concepts, 674
Quantitative Selected Ion Monitoring Processing System: Software and Hardware for the Automated Collection and Analysis of Selected Ion Monitoring Data Acquired for Use in Pharmacokinetic Studies, 679
Commentary on "Extended Least Squares (ELS) for Pharmacokinetic Models" (Sheiner and Beal, commentary), 731
Response to "Commentary on 'Extended Least Squares (ELS) for Pharmacokinetic Models (Metzler, commentary), 732
Pharmacokinetic Evaluation of a Sustained-Release Formulation of Trihexyphenidyl in Healthy Volunteers, 748
Effect of pH on the In Vitro Dissolution and In Vivo Absorption of Controlled-Release Theophylline in Dogs, 760
Autoinduction of Phenobarbital Elimination in the Dog, 768
Absolute Bioavailability and Dose Proportionality of Betaxolol in Normal Healthy Subjects, 779
A New Criterion for Selection of Pharmacokinetic Multiexponential Equations, 784
Pharmacokinetics of a Valpromide Isomer, Valnoctamide, in Dogs, 831
Influence of Maternal Plasma Protein Binding on Fetal Unbound Plasma Concentration of Propranolol in the Pregnant Ewe, 835
Systemic Absorption of Ocularly Administered Enkephalinamide and Inulin in the Albino Rabbit: Extent, Pathways, and Vehicle Effects, 838
Behavior and Resorption of Mitomycin C following Multiple Intravesical Administrations, 843
Absorption Enhancement of Rectally Infused Cefoxitin by Medium Chain Monoglycerides in Conscious Rats, 847
Effect of Altered Albumin Concentrations on Elimination of Unbound Prazosin In Vivo in the Rat and in the Isolated Perfused Rat Liver, 948
Comparative Pharmacokinetics of Unlabeled and Deuterium-Labeled Terbutaline: Demonstration of a Small Isotope Effect, 952
Application of a Stereospecific High-Performance Liquid Chromatography Assay to a Pharmacokinetic Study of Etodolac Enantiomers in Humans, 963
Passive and Carrier-Mediated Intestinal Absorption Components of Captopril, 1007
Human Serum and Plasma Protein Binding of Enoximone and Its Sulfoxide Metabolite, 1012

Pharmacology
Manual of Pharmacologic Calculations with Computer Programs. Second edition. (Sebaldt, book review), 284
Drug Stereochemistry. Analytical Methods and Pharmacology (Jamali, book review), 998

Phenanthrene
Biological Evaluation of Novel Cyclopropyl Analogues of Stilbene, Stilbenediol, and Phenanthrene for Estrogenic and Antiestrogenic Activity, 120

Phenelzine
Potential Prodrugs of Phenelzine: N^2-Acetylphenelzine and N^2-Ethoxycarbonylphenelzine, 498

Phenobarbital
Kinetics of Drug Action in Disease States XXIII: Effect of Acute Hypovolemia on the Pharmacodynamics of Phenobarbital in Rats, 365
Autoinduction of Phenobarbital Elimination in the Dog, 768
Acute Cyclosporine Pretreatment Does Not Alter Onset of Loss of Righting Reflex during Intravenous Infusion of Phenobarbital in Rats, 996

Phentolamine
Degradation Kinetics of Phentolamine Hydrochloride in Solution, 972

Phthalimides
Antipsychotic Properties of New *N*-(4-Substituted-1-Piperazinylethyl)- and *N*-(4-Substituted-1-Piperidinylethyl)-Phthalimides, 898

Pilocarpine
Mechanism of Transcorneal Permeation of Pilocarpine, 771

Pinacidil
Effects of Food on the Bioavailability of Sustained-Release Pinacidil in Humans, 68
Disposition of [^{14}C]Pinacidil in Humans, 153

Piperacillin
pH- and Medium-Dependent Degradation of Piperacillin during Susceptibility Tests on Antipseudomonal Activity, 367
Impact of Dosage Regimens on the Efficacy of Piperacillin against *Pseudomonas aeruginosa* in Neutropenic Mice, 991

Piroxicam
Mean Apical Concentration and Duration in the Comparative Bioavailability of Slowly Absorbed and Eliminated Drug Preparations, 477

Platelet aggregation
Preliminary In Vivo Studies on the Platelet Aggregation Inhibitory Activity of α,α′-Bis[3-(*N*,*N*-diethylcarbamoyl)-piperidino]-*p*-xylene Dihydrobromide in Beagle Dogs, 464

Polarity
Solubility and Polarity Parameters of Polyoxyethylene Glycol Dialkyl Ethers, 893

Polyoxyethylene glycol
Solubility and Polarity Parameters of Polyoxyethylene Glycol Dialkyl Ethers, 893

Porphyrins
The Chemistry and Biochemistry of *N*-Substituted Porphyrins (Smith, book review), 821

Prazosin
Effect of Altered Albumin Concentrations on Elimination of Unbound Prazosin In Vivo in the Rat and in the Isolated Perfused Rat Liver, 948

Prednisolone
Prednisolone Binding to Plasma Proteins in Domestic Species, 937

Procainamide
Effect of Amiodarone on the Disposition of Procainamide in the Rat, 662

Procaine
Vagotomy by the Local Anesthetic Procaine Hydrochloride: A Study in the Rat, 579
Protection by Procaine Hydrochloride against Reserpine-Induced Acute Gastric Musocal Injury in the Rat: Implications for Stress-Induced Injury, 582

Prodrugs
Dyphylline Prodrugs: Plasma Hydrolylsis and Dyphylline Release in Rabbits, 104
Prodrugs Utilizing Organosilyl Derivation: An Investigation of the Long-Term Androgenic and Myotrophic Activities of Silyl Derivatives of Testosterone, 116
Effects of Vehicles and Prodrug Properties and Their Interactions on the Delivery of 6-Mercaptopurine through Skin: S^6-Acyloxymethyl-6-mercaptopurine Prodrugs, 210
Glycolamide Esters as Biolabile Prodrugs of Carboxylic Acid Agents: Synthesis, Stability, Bioconversion, and Physicochemical Properties, 285
Potential Prodrugs of Phenelzine: N^2-Acetylphenelzine and N^2-Ethoxycarbonylphenelzine, 498
Specificity of Esterases and Structure of Prodrug Esters: Reactivity of Various Acylated Acetaminophen Compounds and Acetylaminobenzoated Compounds, 855
Isomerization of Cephalosporin Esters: Implications for the Prodrug Ester Approach to Enhancing the Oral Bioavailabilities of Cephalosporins, 906

Propionohydroxamic acid
Determination of Hydroxylamine Traces in Propionohydroxamic Acid Bulk Drug and Pharmaceutical Preparations by Capillary Gas Chromatography, 711

Propranolol
Propranolol Elimination as Described by the Venous Equilibrium Model Using Flow Perturbations in the Isolated Perfused Rat Liver, 330
Influence of Maternal Plasma Protein Binding on Fetal Unbound Plasma Concentration of Propranolol in the Pregnant Ewe, 835
Determination of Propranolol Enantiomers in Human Plasma and Urine and in Rat Tissues Using Chiral Stationary-Phase Liquid Chromatography, 993

Proton transfer
Molecular Orbital Calculations of Proton Transfer Energetics in Model Systems: The Interaction of Opiate Agonists and Antagonists with Opiate Receptors, 986

Pseudoephedrine
Simultaneous Determination of Pseudoephedrine Hydrochloride, Chlorpheniramine Maleate, and Dextromethorphan Hydrobromide by Second-Derivative Photodiode Array Spectroscopy, 715

Pseudo-First-Order reactions
Analysis of Consecutive Pseudo-First-Order Reactions I: An Evaluation of Available Methods to Calculate the Rate Constants from Co-product or Co-reactant Data, 1055

Pyrilamine
O-Demethylation of Pyrilamine, 727

Questran
Bile Salt Binding Properties of Commonly Used Gastrointestinal Drugs: Maalox, Carafate, and Questran, 527

Quinazolinediones
Synthesis of Some Substituted Quinazolinediones as Potential Inhibitors of Smooth Muscle Contraction, 735

Quinolones
Synthesis and Antibacterial Activity of 6-Difluoromethoxy-7-piperazinyl-3-quinolinecarboxylic Acid Derivatives, 458

Quinones
Evaluation of the Cytotoxic Potential of Catechols and Quinones Structurally Related to Butylated Hydroxyanisole, 393

Radiation
Influence of Gamma Radiation on the Gel Rigidity Index and Binding Capability of Gelatin, 876

Radioimmunoassay
A Highly Sensitive and Specific Radioimmunoassay for Quantitation of Plasma Fluphenazine, 255

Radiopharmaceuticals
Introduction to the Clinical Application of Radiopharmaceuticals (Banakar, book review), 558

Ranitidine
High-Performance Liquid Chromatographic Methods for the Determination of Ranitidine and Related Substances in Raw Materials and Tablets, 889

Rate constants
Estimation of the Rate Constants in a Data-Sparse Environment: Comparison of a Mathematical Method and Least Squares Analysis, 175
Analysis of Consecutive Pseudo-First-Order Reactions I: An Evaluation of Available Methods to Calculate the Rate Constants from Co-product or Co-reactant Data, 1055

Receptors
Characterization of Low K_m GTPase Activity in Rat Brain: Comparison of Opioid and Muscarinic Receptor Stimulation, 353
Molecular Orbital Calculations of Proton Transfer Energetics in Model Systems: The Interaction of Opiate Agonists and Antagonists with Opiate Receptors, 986

Reserpine
Protection by Procaine Hydrochloride against Reserpine-Induced Acute Gastric Musocal Injury in the Rat: Implications for Stress-Induced Injury, 582

Salicylamide
3-Hydroxylation of Salicylamide in Mice, 309

Salicylate
Effect of Salicylate on Serum Protein Binding and Red Blood Cell Uptake on Acetazolamide In Vitro, 751

Senecionine
Identification of Senecionine and Senicionine *N*-Oxide as Antifertility Constituents in *Senecio vulgaris*, 461

Silicone polymer uptake method
Silicone Polymer Uptake Method for Determination of *Cholesterol Thermodynamic Activity in Model Bile Systems*, 610

Sodium caprylate
Fluorescence Study of the Membrane-Perturbing Action of Sodium Caprylate as Related to Promotion of Drug *Absorption*, 390

Solubility
Effect of Some Syrup Constituents on the Solubility of Sorbic Acid, 455
Solubility and Partitioning IX: Solubility of Hydantoins in Water, 518
Determination of the Partition Coefficients, Acid Dissociation Constants, and Intrinsic Solubility of Carbenoxolone, 548
Solubility and Polarity Parameters of Polyoxyethylene Glycol Dialkyl Ethers, 893
Preformulation Study of Pelrinone Hydrochloride, 921
Improved Delivery through Biological Membranes XXXI: Solubilization and Stabilization of an Estradiol Chemical Delivery System by Modified β-Cyclodextrins, 981

Solvatochromic method
Water Solubility: A Critique of the Solvatochromic Approach, 74

Sorbic acid
Effect of Some Syrup Constituents on the Solubility of Sorbic *Acid*, 455

Species scaling
Nonsteroidal Anti-inflammatory Drugs: An Analysis of the Relationship between Laboratory Animal and Clinical Doses, Including Species Scaling, 790

Spectrophotometry
Zero-Crossing Derivative Spectrophotometry for the *Determination of Mixtures of Cephaloridine and Cephalothin* in Pure and Dosage Forms, 615
Second-Derivative Spectrophotometric Assay of Mixtures of *Dicloxacillin Sodium and Ampicillin Sodium in* Pharmaceuticals, 1042

Spiropyrans
Studies on Adsorptiochromism II: Diffuse Reflectance Spectroscopy of Adsorptiochromic Spiropyrans Adsorbed to *Some Pharmaceutically Useful Solids*, 241

Stability
Stability of Morphine Solutions in Plastic Syringes Determined by Reversed-Phase Ion-Pair Liquid Chromatography, 719
Stability Testing of Drug Products (Carstensen, book review), 821
Degradation Kinetics of Phentolamine Hydrochloride in Solution, 972
Improved Delivery through Biological Membranes XXXI: Solubilization and Stabilization of an Estradiol Chemical Delivery System by Modified β-Cyclodextrins, 981
Physical Characterization of Two Oxyphenbutazone Pseudopolymorphs, 1047

Starch Microparticles
Biodegradable Microspheres VII: Alterations in Mouse Liver Morphology after Intravenous Administration of Polyacryl Starch Microparticles with Different Biodegradability, 138

Stereochemistry
Drug Stereochemistry. Analytical Methods and Pharmacology (Jamali, book review), 998

Stilbene
Biological Evaluation of Novel Cyclopropyl Analogues of Stilbene, Stilbenediol, and Phenanthrene for Estrogenic and Antiestrogenic Activity, 120

Stilbenediol
Biological Evaluation of Novel Cyclopropyl Analogues of Stilbene, Stilbenediol, and Phenanthrene for Estrogenic and Antiestrogenic Activity, 120

Structure–activity relationships
Activated Carbon as a Biological Model: Comparison between Activated Carbon Adsorption and Oil–Water Partition Coefficient for Drug Activity Correlation, 166
Effects of Vehicles and Prodrug Properties and Their Interactions on the Delivery of 6-Mercaptopurine through Skin: S^6-Acyloxymethyl-6-mercaptopurine Prodrugs, 210
Relationship between Lipophilicity and Tubular Reabsorption for a Series of 5-Alkyl-5-ethylbarbituric Acids in the Isolated Perfused Rat Kidney Preparation, 359
Structure–Activity Relationship of 1-Alkyl- or 1-Alkenylazacycloalkanone Derivatives as Percutaneous Penetration Enhancers, 418
Substituent Effects on Partition Coefficients of Barbituric Acids, 926

Sulconazole
Percutaneous Absorption of Sulconazole Nitrate in Humans, 489

Sulfamethoxazole
Effect of Binders on Sulfamethoxazole Tablets, 885

Sulfisoxazole
Kinetics of Peritoneal Drug Transport in Rats: An Application of the Pore Theory of Transcapillary Exchange, 481

Sulfonamides
Clinical Pharmacokinetics of Sulfonamides and Their Metabolites. An Encyclopedia. Volume 37. Antibiotics and Chemotherapy (Suber, book review), 96
Isoelectric Points of Some Sulfonamides: Determination by Microelectrophoresis and by Calculations Involving Acid–Base Strength, 918

Tamoxifen
Simultaneous Determination of Tamoxifen Citrate and Its *E* Isomer Impurity in Bulk Drug and Tablets by High-Performance Liquid Chromatography, 810

Temazepam
Determination of Temazepam and Related Compounds in Capsules by High-Performance Liquid Chromatography, 87

Terbutaline
Comparative Pharmacokinetics of Unlabeled and *Deuterium-Labeled Terbutaline: Demonstration of a Small* Isotope Effect, 952

Testosterone
Prodrugs Utilizing Organosilyl Derivation: An Investigation of the Long-Term Androgenic and Myotrophic Activities of Silyl Derivatives of Testosterone, 116

Tetracycline
Determination of Tetracycline Hydrochloride in Presence of Anhydrotetracycline by Differential Pulse Polarography, 78
Nuclear Magnetic Resonance Study of an Ethyl Cellulose *Sustained-Release Delivery System II: Release Rate Behavior* of Tetracycline, 428

Theophylline
Effect of Excipients on Tablet Properties and Dissolution Behavior of Theophylline-Tableted Microcapsules under Different Compression Forces, 229
Kinetics of Drug Action in Disease States XXVI: Effect of Fever on the Pharmacodynamics of Theophylline-Induced Seizures in Rats, 569
Effect of Age on Neurotoxicity of Theophylline, 645
Circadian Rhythm in Theophylline Disposition during a Constant-Rate Intravenous Infusion of Aminophylline in the Dog, 658
Kinetics of Drug Action in Disease States XXVIII: Effect of Acute Hypovolemia on Theophylline-Induced Neurotoxicity in Rats, 729
Caffeine as a Potential Risk Factor for Theophylline Neurotoxicity, 745
Effect of pH on the In Vitro Dissolution and In Vivo Absorption of Controlled-Release Theophylline in Dogs, 760
A Rapid Sample Clean-Up for Determining 5-Hydroxymethylfurfural in Dextrose:Theophylline Injection, 1066

Thiamphenicol
Reversed-Phase Liquid Chromatographic Separation of Enantiomeric and Diastereomeric Bases Related to Chloramphenicol and Thiamphenicol, 1062

Thixotropy
Thixotropic Behavior of a Microcrystalline Cellulose–Sodium Carboxymethylcellulose Gel, 799

Thrombin activity
Biological Action of Colorless and Yellow Solutions of Gold Sodium Thiomalate on Thrombin Activity and the Mixed Lymphocyte Reaction, 1033

Thromboxane
Inhibition of Leukotriene and Thromboxane Biosynthesis by a 9-(4-Chlorophenyl) Analogue of Arachidonic Acid, 149

Tobramycin
Interindividual Changes in Volume of Distribution of Cefazolin in Newborn Infants and Its Prediction Based on Physiological Pharmacokinetic Concepts, 674

Toxicity
Caffeine as a Potential Risk Factor for Theophylline Neurotoxicity, 745
Unsaturated Cyclic Ureas as New Nontoxic Biodegradable Transdermal Penetration Enhancers I: Synthesis, 967

Triazole
Specific Inhibition of Benzodiazepine Receptor Binding by Some 1,2,3-Triazole Derivatives, 977

Trihexyphenidyl
Pharmacokinetic Evaluation of a Sustained-Release Formulation of Trihexyphenidyl in Healthy Volunteers, 748

Triprolidine
Microbial Transformation of the Antihistaminic Drug Triprolidine Hydrochloride, 259

Urapidil
Physical Characterization of the Hydrates of Urapidil, 444

Vagotomy
Vagotomy by the Local Anesthetic Procaine Hydrochloride: A Study in the Rat, 579

Valnoctamide
Pharmacokinetics of a Valpromide Isomer, Valnoctamide, in Dogs, 831

Valpromide
Pharmacokinetics of a Valpromide Isomer, Valnoctamide, in Dogs, 831

Vasopressin
Vasopressin: A Model for the Study of Effects of Additives on the Oral and Rectal Administration of Peptide Drugs, 33

Veralipride
Pharmacokinetics of Veralipride after Chronic Administration in Humans, 64

Verapamil
Influence of 1-Dedecylhexahydro-2*H*-azepin-2-one (Azone) on the In Vitro Permeation of Verapamil Hydrochloride across Rat, Hairless Mouse, and Human Cadaver Skin, 776

Vesicles
Equilibrium Uptake of D-Glucose by Osmotically Stressed Unilamellar Phospholipid Vesicles, 1021

Vinblastine
Studies on the Stability of Vinblastine Sulfate in Aqueous Solution, 630

Vinpocetine
Kinetics and Mechanisms of Vinpocetine Degradation in Aqueous Solutions, 126

Warfarin
Structural Requirements for Binding of Nonsteroidal Anti-inflammatory Drugs to Human Serum Albumin, 251

Water solubility
Water Solubility: A Critique of the Solvatochromic Approach, 74

Yangonin
Uptake into Mouse Brain of Four Compounds Present in the Psychoactive Beverage Kava, 1003

Zoapatle
Studies on Zoapatle VIII: Novel Cytotoxic Sesquiterpene Lactones from *Montanoa tomentosa* ssp. *microcephala*, 553